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SYSTEM

OF

RATIONAL and PRACTICAL

CHIRURGERY.

WHEREIN

All the General Intentions, whether Natural or Artificial, are accounted for and explained; according to the Principles of the Corpuscular Philosophy, and the evident Qualities of Medicines. Together with the Causes, Diagnosticks, Prognosticks, and Method of Cure, of Tumours, Ulcers, Wounds, Fractures and Differentions.

To which is added,

An INDEX of Medicines, and their evident Qualities.

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THE

PREFACE

TO THE

READER.

HE great Advantage that all Arts and Sciences have received from Philosophy, is so well known to those, whose Curiosity hath encouraged them to enquire

ty hath encouraged them to enquire into it, that it would be needless for me to use any Arguments to recommend it. How much the Art of Physick hath been improved by it is evident, from the Writings of A 3 a great

a great many learned Men, who have been industrious in applying emperimental Philosophy to demonstrate the Reason of their Practice, by which they have distinguished themselves from those emperical Practitioners who know nothing but what they have seen, and received all their Knowledge in at their Eyes, without giving themselves the Trouble to enquire into the Reason of what they do. So that if any Case happens to vary from what hath been taught them by Experience, either by the Difference of the Cause, Symptoms, or Variety of Constitutions, they are altogether at a Loss, and ignorant what Method to pursue. Whereas when the Structure of Human Bodies is understood, and the Nature of those Humours contained in the distinct Vessels, and what Alterations they are subject to, and likewise how they affect one another; and also why Medicines produce the Effects they

they have upon them, whose Qualities they have taken Care to understand, it is no Difficulty to vary and alter their Practice according to the different Circumstances of any Case that may happen; nor can any Distemper be new, or difficult, to those who have taken Pains previously to consider the Mechanical Reasons of what may happen in Human Bodies.

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And as Reason and Philosophy are serviceable in Physick, so will they be equally useful, even in Chiturgery; for though Chirurgery in a great Measure consists in Manual Operation, and it is requisite a Surgeon should have seen several Operations; before he ought to undertake them; yet when he hath seen those Cases, to understand the Reason of what hath been done, will enable him the better to undertake the Business himself, and not only to perform; but improve his own,

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as well as the Practice he hath feen. As in Fractures in Cranio, when the Skull is depressed, and occasions violent Symptoms, and it is absolutely requisite the depressed Part should be raised speedily; should I make Incision, and having dressed the divided Lips of the Scalp, with proper Medicines to stop the Flux of Blood; should I be obliged to bind it up, and wait some Hours, lest the Blood should flow in upon the Dura Mater, when the Skull was perforated, to raise the depressed Part; and give way to the Influx of Humours, instead of making a Discharge; the Patient in that time might be dead; but fince I know that in other Cases actual Cautery will immediately stop the Flux of Blood, and that the Life of the Person is in immediate Danger; though it be common Practice to wait some time before the Trepan is made use of, yet my Reason will tell me that I may stop the Blood

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at once by actual Cautery, and immediately proceed to Perforation, and raise the depressed Part, without running the Hazard of those ill Consequences which might happen by Delay. I do not urge this as Practice, but as an Instance how Reason may direct me to what is not common Practice.

But Reason and Philosophy are not only useful to improve Manual Operation, but altogether necessary, where Medicines and External Applications are required; for fince the Humours which circulate thro' the Vessels, as well as the Vessels themselves, are concerned, it is not only necessary to consider the Structure of the Body, but likewise the Nature of the Humours in a natural State, and what Alterations they undergo, when they occasion either Tumours or Ulcers, or how they may affect Wounds as they differ in Quantity or Quality;

as likewise we are to consider the Nature of Medicines, and the Reason of their Effects.

Since then the Theory may be ferviceable in improving the Practice of Chirurgery, I hope the following Sheets will meet with that candid Reception which the World hath hitherto favoured me with. And I am the more apt to flatter my felf with that Success, fince I pretend not to instruct those who have no Occasion for it, but those who have.

I am not so vain as to think that I my self alone am able to undertake a Work of this kind, being satisfyed that there are a great many ingenious Surgeons, who might have done it much better than my self; but since none of them have thought fit, as yet, to give themselves the Trouble, I hope they will not be offended if I have undertaken it.

Nor am I so conceited as to think my self so infallible, but that I may be guilty of some Mistakes, which I hope the ingenious and candid Reader will rather correct than blame. And if his Thoughts are better than mine, he will not be angry because he knows better than my self.

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However, I have endeavoured to explain and give a rational Account, in the following Sheets, of all the Phænomena in Surgery, whether natural or artificial, according to the Principles of the Corpuscular Philosophy, and the evident Qualities of Medicines; and to make it more intelligible, I have by way of Introduction laid down a short System of that Philosophy; and to make this Book more useful, I have likewife added the most approved and orthodox Method of Practice, and shewn why the Medicines made use of produce their Effects.

And

And that this Book might be the more perfect, and less liable to the Objections of those severe Criticks, who are apt to approve of nothing but their own Performances; better skill'd in finding Fault, than writing any thing of their own, I have in the following Sheets confulted that approved and ingenious Author Mr. Wiseman; so that instead of quoting him upon all Occasions, I may fay in general, that there is nothing in his Book which is not contained in this. So that this Book may not only be called A System of Rational Surgery, but likewise an Ab-Aract of his Practice, besides the Additions I have made of my own. And I have the rather made use of his Prescriptions than substitute new ones of my own, fince they have been approved and confirmed for fo many Years with general Applause; containing the whole Materia Medica useful in such Cases. So that

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that if any of them seem too long, the Reader having the Reason of their Operation and Effects along with them, he may be able to chuse or substitute Forms of his own, as the Circumstances of the Case requires.

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To conclude, if what I have done may be serviceable to young Surgeons, and acceptable to the Candid part of the World, I have my Design.



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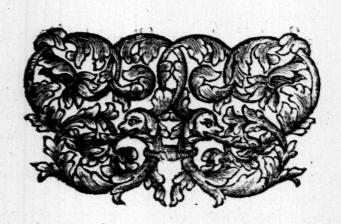
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A SY



SYSTEM

OF

RATIONAL CHIRURGERY, &c.

The INTRODUCTION.

CHAP. I.

Of Chirurgery in General, and the Method of explaining the Causes of Diseases, and the Intentions of Cure, as well as the Effects of Medicines.

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zes, &c 351

SY

HE Art of Chirurgery strictly, ac- of chirurcording to the Etymology of the word gery in Gexerpspyia, only fignifies manual Ope-neral. tation; where, by the Use of Instruments, or the Affistance of the Hands,

human Bodies are relieved of those accidental Difcales

eases they are externally subject to. And if so, it

would be sufficient for a Chirurgeon to consider the natural Structure and Situation of the Parts of a human Body; and what Instruments, or other manual Assistance might be proper for their Relief, when difabled by any Accident. But fince Chirurgery is divided into four Parts, viz. Synthesis, Dieresis, Exeresis, and Anaplerosis; and since the last Part of this Division is chiefly effected, by the evident Qualities of Medicines applied; as they affift Nature in doing her Part; and none of the others can be perfected without them; to make the Art of Chaurgery perfect, it will be likewise requisite for a Chirurgeon to consider, not only the Structure and Fabrick of human Bodies, but also the Nature of the Humours contained in each distinct Vessel, which may be affected with Intemperies, and occasion the Diseases under his Care: For if the nature of those Humours be not well understood, and the Alterations they are liable to, it will be a difficult matter for a Chirurgeon to apply fuch Medicines as are proper to answer his Intentions. And as it is necessary to understand the Structure of the Parts, and the Nature of the Humours contained in those Parts; so it is also requisite to consider the Nature and Qualities of those Medicines applyed, and how they affect the Parts or Humours they are to work upon; by which means he will be better able to proportion, and chuse proper and effectual Topicks, to relieve his Patients of their respective Maladies.

What is to be confidered by a Chirurgeon.

The Ulefulnels of Theory.

And when the Structure of the Parts are duly confidered, and the Nature of the Humours external Applications are to work upon; and likewise the Nature and Qualities of Medicines, it will be no difficult Matter thence to deduce their modus operandi, and to explain how, what Medicines we make use of, produce their evident Essects. And when once we can but apprehend, why Medicines

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produce their natural Effects; it will evidently appear, how much the *Rationale* improves Practice, in teaching us to diversify Applications, as the Circumstances of the Case shall indicate.

And fince all fingular Cases are comprehended the Method under their respective Species, and those different proposed in Species are considered under their proper Genus's; the follow-the Method I propose in the following Sheets, shall ing Ratio-be first to consider the several Genus's, and from

thence proceed to each particular Species.

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We

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nes roBut since all Genus's and Species are comprized under the general Term of Chirurgery, of which we propose a Rationale; before we proceed to Particulars, it will be reasonable to consider and propose a general Scheme or System, by which we conceive all the Phænomena in Chirurgery may be accounted for.

And fince the Qualities of the Parts, and Humours of a Man's Body, are evident Qualities; and also, fince the Qualities of those Medicines we make use of, are equally manifest; we shall first deduce and account for the several *Phænomena*, by evident Qualities; and then shew how those evident Qualities produce their Effects, by their respective Particles working upon one another, according to the Principles of the corpuscular Philosophy.

By evident Qualities I mean, those Properties which are the Result of each particular Body's di-Qualities, stinct Form, or Contexture of Parts; for as the what. different Contexture of Parts of a Body happen to vary, so do their Forms, since Forms are nothing else, but a particular Modification, or Contexture of the Parts of Matter, of which the Body or Substance is composed; and as every distinct Substance hath its proper Contexture of Parts, that makes its Form; so according to that distinct Form, it hath distinct Qualities. Hence a Body is said to be astringent, and another whose Form and Con-

textur

texture is of another kind, is Mucilaginous or Dif-

cutient, &c.

But to make this more intelligible to those who are but little acquainted with the Nature of Forms and Qualities; it may be requisite more distinctly to explain, whence Forms and Qualities arise; by which it will not only appear more plainly, what I mean by evident Qualities; but it will be a great deal easier to apprehend, how these Qualities affect one another, in the feveral Intentions in Chirurgery; and Philosophically to deduce the Reasons of the Effects of those Medicines, which are made use of in Chirurgery. In order to this then we shall fully confi first consider,

The Nature of Forms . and Qualities more red.

That as all Bodies are formed of common Matter, they would without Distinction appear to be of the same kind, were there not something to diversify them; and as Matter, considered as Matter, would be, as black to black, without differing in colour; there must be some Accidents to diversify the feveral Parts of it.

And fince every Body confifts of Parts, it is but reasonable to suppose, that in different Bodies, those Parts must vary, either in Size, Figure, or Position and Order; for were they of the same Size, Figure and Position, there would be no Difference in Texture, and confequently to our Senses they would appear to be the same: But since Parts of a different Size, Figure, and Contexture, make a different Modus of Matter, that different Modification will occasion different Forms; and as the Forms are varied by feveral Contextures and Modifications, for those Bodies will acquire different Qualities, since How diffe Qualities are the Result of, and flow from Forms; rent Quali- for Qualities arise from Forms, as Forms do from

of Matter, of various Sizes, Figures and Positions.

one another. different Contextures and Modifications of the Parts

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Now fince from what hath been faid, it plainly appears what I mean by Qualities; it will be no difficult Matter to imagine, how evident Qualities may affect one another, fince Qualities flow from Forms, which confift of Parts of a different Size and Shape from one another: For as that Difference happens, no doubt but their Effects on one another will be different also; various Particles of Matter affecting one another after feveral Manners; for when Particles of particular Sizes and Shapes are mixed together, and in Motion, they will be apt either to quicken and promote, or obstruct and hinder their respective Degrees of Motion. If they be volatile and subtile, they will be apt to enter into the Pores of groffer Bodies, whose Parts are so formed together in their Contexture, as to leave Pores large enough to receive them; if the Figure of their Parts be sharp and cutting, they will be apt to divide and separate the Parts of other Bodies, whose Texture is not too firm to refift them; and consequently will occasion a Comminution or Corrosion. If they be hooked, and contain different Angles, they will be apt to take hold of one another, and entangle the Parts of other Bodies; and by obstructing their Motion, render them less fluid, or milder in their particular Qualities. If they be round and fmooth, they will dull the Edges of sharp acrid Humours, by an Interpolition of their Parts; and thus, according to their different Qualities, they will have different Effects. But these, and the rest of the Qualities of Chirurgical Applications, shall be more fully explained and illustrated in their proper places,

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CHAP.

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CHAP. II.

Of the General Divisions of Chirurgery.

Of the Divisions of Chirurgery.



Hirurgery in General is divided into four Parts, viz. Synthesis, Diæresis, Exæresis, and Anaplerosis.

Synthesis teaches how to join together Parts unnaturally separated; whe-

ther by sharp Instruments, dividing the softer Parts, or external Violence producing a Solution of Continuity in the solid Parts.

Diæresis instructs us how to separate Parts which preternaturally happen to be joined together.

Exercis tells us how to take away what is superfluous: And

Anaplerosis informs us how to add what is wanting, and to supply the Loss of Substance happening

in any Part.

But since these Parts of Chirurgery happen, in several Cases, to be jointly concerned; it is impossible to write of Chirurgery in General under those Divisions: But since all Cases in Chirurgery come under the Denomination of Tumours, Ulcers, Wounds, Fractures or Dislocations, we shall treat of them under those General Heads; and first proceed to consider the Nature of Tumours.



A

SYSTEM

OF

Rational Chirurgery, &c.

PART I.

CHAP I.

Of Tumours in General



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Tumour is a Disease, in which the The Defini-Parts of the Body recede from their tion. natural State, by an undue increase of their Bigness.

The Causes which concur to the The Causes. Production of Tumour, are, either

Antecedent, Procatartick, or Conjunct. The Antecedent Cause is, The peccant Matter contained in the Mass of Blood, whilst it circulates, and is mix-

B 4

ed

ed with the whole. The Procatartick Cause is, That which occasions a Separation of the morbifick Matter from the Mass of Blood, and disposes it to mou be thrown out, and discharged upon any part: can And this may be done, either by Heat, or Cold; accidental Heat occasioning a critical Separation of that and Humour; and Cold incraffating and thickening the Humour fo much, that it becomes too gross to pass tent through the finall Vessels. The Conjunct Cause is, min The Humour discharged upon the Part, and which produces the undue increase of its Bigness. But the the Humour discharged upon the Part, may not on Cau ly be accounted a Conjunct Cause; but also, the Weakness of the Part which receives it; for if the and natural Tone of the Part were not weakened, any other Part might as well give way to the Reception of Mux olent Blow, or other Accident, hath the Tone of Flu it's Fibres weakened; or by any precedent Distemper; or when, by the natural Structure of the Parts, their Fibres contract a natural Debility and Weakness; they are, by that means, rendered more apt to give way to the Reception of distempered Humours, and confequently concur with the peccant Matter, to the Production of a Tumour. But the Weakness of the Part may not only be e- wit fleemed as a Conjunct Caufe, but likewise, as an Antecedent Cause, in as much as it preceded the Tumour.

Differences.

According to the different Qualities of the Conjunct Material Cause; and the different Parts upon which it is discharged, Tumours receive their various Denominations.

When Blood and Serum mixed together, happen to be thrown upon any Part, they occasion either an Inflammation, or Phlegmon, Eryfipelas, Furunculus, Epinyctis, Terminthus, Phyma, Phygethlon, &c. When the Mass of the Blood alone produces a Tumour,

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mour, it occasions a Varix, Ecchymosis, or an Anuisma; Choler produces Herpes, Phlegmatick Humours, OEdema; Melancholy, Scirrhus; Atra Bilis. Cancer; waterish Humours, Hydrocephalus, Hyreps and Hernia aquosa; falt Humours, Scabies and Lepra; Wind, Emphysema.

As the peccant Matter is discharged upon diffepass ent Parts, Tumours likewise receive different Deno-

minations, as, Bubo, Parotis, &c.

Another Difference in Tumours happens from their Degrees of Increase; the Material or Conjunct Cause, in some, being thrown upon a part suddeny, and with great Pain; in others, without Pain,

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When a Tumour is occasioned, by a sudden In- By Fluxion, of Mux of Humours, it is faid to be made by Fluxion; and the Humour that flows to it, is generally hot. of fluxion is weaker or stronger, according to the fem- eral Accidents that attend it, whether they be naurally or artificially occasioned. The Accidents of Nature which increase Fluxion, are Pain, corrosive red Humours, Wounds or Contusions: Other Accidents re, hot Medicines, bliftering Plaifters, external Heat. the cupping Glasses, &c.

When a Tumour increases by slow degrees, and By Congewithout pain, it is faid to be made by Congestion: gion. These Tumours are generally cold; and the Parts being weakened, have lost their natural tonick Striture; so that they easily give way to the Impression of Humours, which are either thin and ferous, or thick and phlegmatick: The latter are apt to coagulate and indurate, the thinner parts being evaporated; and then they occasion Scirrhous Tumours, or Exostoses; but some kind of Tumours, which rife by flow degrees, owe their Origin to the undue apposition of the Parts of natural suices, as, Sarcoma, Hernia Carnosa, &c.

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When Wind happens to be mixed with Humour and gets the Predominancy, it occasions a particula Tumour, called, Emphysema.

Of the formal Caufe

Thus much being faid, as to the concurring Cau fes, and differences of Tumours in general; it ma of Tumoars. not be amis, before we proceed, to consider what is the true formal Caufe, or the manner how a Tumour is formed; and after what manner the peccant Matter occasions an undue increase of Big ness; and how Accidents contribute to the quicket or flower increase of them.

> The better therefore to apprehend what may be the true formal Cause of producing Tumour, or the modus formandi, it will be requisite to consider, that the whole Body, and consequently every distinct Part, is altogether vascular; and as every Part, confidered as organical, is composed of Veffels of fe veral kinds; fo the Humours, that circulate through those Vessels, also vary; and consequently, as those different Vessels, or several Humours are in fault fo they will produce Tumours of different kinds, attended with Symptoms and Accidents, peculiar to their differences: As for example, if the Blood be in fault, it must produce it's ill Effects in the Blood Vessels; or else, by fault of the Vessels it ought to be contained in, it must be extravasated: The Serum, or proper Humour separated in each Gland, mut likewise be peccant, or the Vessels themselves in fault; for as long as the Humours are of their natural Temper, and the Fibres of the Vessels retain their natural Strength, and due tonick Stricture; the whole machine or organical Engin, will perform it's Office without Fault; but if the Humours in the fmall capillary Veffels be too gross and thick to pass easily through them, and circulate, they will be apt to stagnate, and cause an Obstruction, and hinder the due Circulation; and if any of the small Vessels be obstructed, since the Humours are in constant Circulation

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nour ulation; fuccessive Humours, crouded by fuccessive ulfations, on the obstructed Part, for want of free assage, will be apt to distend the obstructed Vessels. evond their due Tone; and then the distended Vefls, must of Necessity compress the adjacent Vefels, which will occasion an Obstruction in them kewise; and consequently, the Tumour in the first effels, will occasion it in those adjacent; so that he Tumour must gradually increase, and likewise he Symptoms. Now if upon an Obitruction of the irculation, by successive crouded Humours, the effels are so far extended, as to cause a Solution of Continuity, and Rupture of the Vessels; then conquently an Extravalation must follow, and the Tunour be still enlarged. Again, if a Body be Plehorick, and the Vessels very full and altogether diended, though the Humours be of a good Temper; et any particular Vessel having lost, by an accidental Blow, or natural Weakness, it's due tonick Striture, it will be apt to give way to the Pressure of he Humours, and tumify; and that Tumour may e either so far extended, as to produce an Extravaation, or else the Vessel tumified, may press so much pon the adjacent Vessels; that though there be no Dbstruction in it self, it may cause an Obstruction, nd consequently a Tumour in them. Again, if a leffel have a natural, or accidental Weakness, hough there be neither Obstruction through Grossess, nor the Vessels ruptured by Plethora; yet, if he Humours be sharp and thin, and consist of corofive penetrating Parts, they may fo far weaken nd fret the Fibres of the Vessels, as to render them lable to give way to Extravalation by a finall Force.

From hence it appears, that a Part may be tumi- How man fied, either by Obstruction, Extravasation, or the ways a Part Extension and Dilating of the Vessels through the may be tu-Weakness of their Fibres; which are such natural mified.

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Consequences, if we consider the Body as a Vasco lar Machine, and the manner of the Circulation the Humours, that there feems to be no occasion for farther Proof, fince what I have proposed carrie Demonstration along with it; for we fee, the when any Vessel externally is compressed, it pro fently tumifies, and that when one is fwelled, will press upon the next to it, is so natural, it a mits of no Dispute. How Extravasation create Tumour, is evident in Ecchymofis, and Aneurisma and that the Vessels, by Weakness, may give wa to Tumour, is evident in a Varix, and that the Veffels, when so tumify'd, may press upon, and of ftruct the Circulation of the Humours in the adi cent Vessels, is evident in the Symptoms; find a Tumour always occasions the Parts about it t fwell.

How the Symptoms and Accimours are occasioned.

Since from what hath been faid it appears, ho Tumour may be occasioned; it is not difficult to conceive, that as those Accidents that occasion it dems of Tu- happen to be in different Parts, they will create di ferent kind of Tumours and Symptoms; for if the happen in fleshy Parts, where the Vessels are full of hot Blood, the Circulation strong, and the Vessel closely compacted together; an Obstruction wi cause a violent Extension of the Vessels, or an Ex travafation must be proportionably violent to the Largeness of the Vessel ruptured, and the Violend of the Humours crouded on by the impulse of Cir culation: And fince every Muscle is contained in proper and fensible involving Membrane, and ead Fasciculus of Fibres, is tied together by proper Fibres extended from the Expansion of the Tendons; when these Membranes and Fibres are violently extended by the Tumour, it must needs occasion Pain; and fince the Veffels extended, press against those sensible Membranes, the free Passage of the arterial Blood the through the Parts about the Tumour, being stopped

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ad hindred, each Pulsation will make an Impression afci on those Membranes, and cause a sensible Pulsaon; fo that fuch fort of Tumours must needs be tended with Pain and Pulsation, as well as Tenon; and fince Pain affects the Spirits, and caus more violent Expansions of them, and conseiently, promotes Circulation, that Pain must ocfion a feverish Heat and quick Pulse, which proices a Fever. How the violent Expansion of the birits may occasion a Fever, I shall not explain ere, but refer the Reader to a small Tract of mine rote some Years ago, about the Reason of the Heat f the Blood.

But to proceed, if Pain will occasion Heat, and leat promote Inflammation, it is not only evident ow internal Heat and Pain exasperate each other, nd promote Tumour; but how even external Accients may promote the Symptoms likewise; as exernal Heat, or hot Medicines, or whatever Appliations cause Pain, whether corrosive Medicines, or upping Glasses, &c. For if whatever heats causes nflammation, and Inflammation causes Pain, &c. hen Pain, occasioned externally, will do the same. and thus much for Tumours in fleshy Parts or any ther, where Tension presses upon sensible Membranes, losely confined about the Tendons, or Ligaments of he Joints, or the fensible Membranes that invest the Bones.

When Tumours happen in glandulous Parts, which re less sensible, being not so closely confined by inesting sensible Membranes, though the Vessels happen to be obstructed and tumified, or the Hunours to be extravasated, or otherwise to be dilated, yet the Symptoms are less violent, the Heat and why the

Inflammation being proportionably lefs. What hath been faid may suffice to shew, the for- by Fluxion mal Causes of the Production of Tumours, and differ from those made

their Symptoms: It remains only that we should by Conge-

add, Ation.

add, why Tumours, which are faid to be made by Ca Fluxion, differ from those, which are said to be

made by Congestion.

And first, In Bodies which are affected with To mours by Fluxion, as they are hot Tumours, for those Bodies are full of Humours which are more eafily inflamed. Secondly, The Parts affected with them are more fensible, and subject to be affected with Thirdly, In firong Bodies the Pulsation the arterial Blood is forced upon the Parts with more Violence. And, Fourthly, The Extension of the Parts is quicker and less gradual, which render the Pain more exquisite, than where the Parts and gradually extended, and give way to the Humour by degrees.

But in Tumours made by Congestion, the Hu mour is generally cold; the Humour flowly for ced upon the Parts, and impelled by a gentler and less forceable Pulse. Besides, the Vessels having lost their Tone, easily yield to the Reception of the peccant Matter, and the Parts affected are less sens

ble of Pain.

As for those Tumours which are occasioned by Wind mixed with Humour, they generally happe in membranous Parts, which are less sensible; as it the Membranes, betwixt the Skin and the Subjacen Parts; where, by the violent Expansion of the Wind, those Membranes are inflated, and stretche beyond their due and natural Tone; and only ele vate the Skin without pressing upon the Parts by neath them. These Tumours often happen, and are occasioned by Contusions about the Joints esp cially upon the Ancon or Patella.

But to proceed to Tumours occasioned by Ho mour only. From what hath been faid, it will be no difficult Matter to assign their Diagnosticks. I a Tumour proceed from any external Cause, it wil min be easily known; but if it proceed from an interna Sup

Diagnoflicks.

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e by Caufe, it must be either by Congestion or Fluxion.

That which is made by Congestion increases gra-Tumours by o be nally, without any evident preceding Cause, or Congestion. uch Pain, except about the Joints, or Parts very Tunfible. , fo

If the Tumour be made by Fluxion, it is very By Fluxion. inful, and increases suddenly, with Tension, Pultion, and a Fever. There is another fort of Fluxin, which Mr. Wiseman calls Translation; but since believe the Distinction not material, I shall not ere take notice of it.

Tumours made by Fluxion have four Times or Degrees, viz. Beginning, Augment, State and Declination. Their Beginning is with the Extenon of the Parts affected; when Tumefaction of the Teffels is first occasioned by Obstruction, or Extrafation of the Humours, and before they begin to agnate and tend to Suppuration. The Increase , when the Tumour is evident, and the Symptoms new themselves accordingly. The State is, when he Symptoms are at the Height, and the Tumour appurates. The Declination is, when the Tumour s well as the Symptoms abate.

In the Prognosticks of Tumours we are to consi- Prognoer, That the more noble any Parts are, so much sticksncen hey are more dangerous; also Tumours internal re more dangerous than external. The Event vaies likewise according to the Largeness of the Tunours, and the Accidents that attend them; and lso according to the Quality of the Humour that ccasions them, whether it be hot or cold, gross or

thin, benign or malignant.

We are likewise to consider the manner of their

Ho Termination, whether by Discussion, Suppuration, ll be Corruption, Induration, or Retraction.

If they terminate in Discussion, the Tumours diminish, and the Parts are relaxed; if they tend to erns Suppuration, they are attended with Pain, Pulfation, and a Fever; but when the Matter is suppurated, those Accidents cease; and the Tumour rising into a Cone, the Matter appears white, and sluctuates under your Fingers: But in crude Tumours, and those that lye deep among the Muscles the Matter is not so easily discover'd; if they terminate in Corruption, the Tumour sinks, and the Parts are livid and blackish; if in Induration, the Tumour and Pain decrease as they grow harder. If they end in Retraction, they presently disappear; and the Humour being mixed with the Blood, creates ill Symptoms, and a Fever.

The Intentions of Cure.

In the Cure of Tumours, three things are chieff to be confidered. 1. The Nature of the Part 2. The Nature of the Tumour. 3. Its Time, and other Circumstances.

The Nature of the Part to be considered.

First in respect of the Part, we are to consider 1. Its Temperament. 2. Its Conformation. 3. It Situation. 4. Sense. 5. Its Use.

First, in respect of their Temperament, some and hot, as the Muscles, abounding with a vast Number of small sanguiserous Vessels, and kept warm by a close compacted Paranchyma. Others are colder, a the Tendons and Glands, which are more exposed to the Influence of external Cold, and less desended and covered with warm Blood Vessels within. Some are moderately moist themselves, and require Medicines, neither too violently drying, nor too moist, a the slessly Parts; others dry of themselves, require drying Medicines, as Bones; others of a loose and spongy Nature, are naturally overwhelmed with their own Moisture, as the Glands of Emunctoric about the Axilla, Inguen, &c.

Secondly, The Conformation of Parts, either respects their outward Figure, or internal Composition. The first shews us what Cavities or Interstice may receive Humours; and the latter, of what Parts, whether similar or organical, they are compared.

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posed of, which may suggest the most proper Inten-

Thirdly, The Situation of the Part is to be minded; for as the Part is more or less depending, so the Humours contained in the Vessels, by their own specifick Gravity, will be apt to press upon the Parts, and add to the Humours (which were heaped up by the other Accidents, and concurring Causes of Fluxion) so that if a Part be naturally depending, t must, if possible, be placed in such a Posture, as may give least way to the pressure of Humours; as in Arm is to be raised to the Breast, or a Leg to be raised by placing it upon a Couch or Stool.

Fourthly, If the Parts be of very acute Sense, or the Parts adjacent; all possible Care is to be taken

o prevent ill Symptoms.

Fifthly, Regard is to be had to the Part, in repect of it's Use, as it is more or less noble, simple

or organical.

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The Nature of the Part being considered, Second-The Nature y we are to consider the Nature of the Tumour; as, of the Tu-whether it be hot, and made by Fluxion; or cold, mour to be and raised by Congestion; or mixed, and partly both. If by Fluxion, it is to be check'd by Evacution of the Humours, by Bleeding and Purging, or by Revulsion, Derivation, Repulsion, Discussion, for by Congestion, then purging with Resolvents and Discutients, and such Medicines as may threngthen the Parts, may be convenient: If the Tumour be made partly by Fluxion, and partly Congestion, the Method is to be complicate likewise.

The third thing in General, in the Cure of Tu-The Time, mours, to be considered, is, its Time and other and other Circumstances, as whether in the Beginning, In-frances.

crease, State or Declination: And

First, In the Beginning of Tumours made by Bleeding, Fluxion, Bleeding is convenient, which is to be in why requi-Quantity proportionable to the Violence of the fire.

Disease,

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Disease, and the Strength of the Patient; for the fanguiferous Vessels being, by this means emptyed, the Humours are not so plentifully forced upon the Part; and confequently, if there happen an Obstruction; the Veffels about it are less swelled and crouded; and if the Vessels happen to have been so much distended, as to give way to an Extravasation, they are by this means fo much emptied and evacuated, as easily to reassume and receive the extravasated Humours into the Blood again; besides the Quantity of evacuated Blood, making room for an equal Quantity of thinner Liquors, to attenuate and dilute the whole Mass, the Matter which occasioned the Obstruction, may, by that means, be thinn'd and made apt to move, and disposed to mix with the rest of the Mass. But this is not the only Advantage of Evacuation; for the Humours are not only attenuated, and the Veffels emptied, but the Heat and Inflammation likewise abated; and that three Ways: First, by taking away Part of those hot Humours within; Secondly, by making room for medicinal Liquors to correct and restrain the Heat of those left behind; Thirdly, and consequently, by abating the Fluxion, and Inflammation of the Part.

Thus, by Bleeding, not only the antecedent Cause is diminished, which might still feed the Tumour, but likewise the conjunct Cause is inclined and dis-

posed to be retrasted into the Blood again.

Purging, why useful.

But as Bleeding is, for the abovementioned Reafons, necessary both in respect of the antecedent and conjunct Cause, in the Beginning of Tumours, Evacuation by Stool will be also requisite; by Cly sters or lenitive Purging, or stronger, as the Nature of the Humours require, or the Strength of the Patient will admit; by this means the Cacochymia or Quantity of ill disposed Humours, which might disorder the Mass of Blood, or supply and add to the Matter of the Tumour, are diminished, and the oth Matter and h lê

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caand latter lodged in the Part, disposed to go off into he Mass of Humours; for Purging is not only beeficial, as it makes Evacuation and Discharge of eccant Humours, but likewise by raising a gentle lear, and quickening the Circulation of the Blood, at once promotes the quicker Digestion, and elps to attenuate Crudities; and also, by pressing e Blood upon the obstructed Part, help to loosen nd thrust forwards the Humours there lodged; fides, purging Medicines, according to their difrent Qualities, perform the Office of Alteratives, nd diminish the Humour, by altering its Qualities well as Quantity; as Cassia and Manna, which ot only purge away superfluous Humours, but by eir lenient Balsamick Qualities, allay the Heat of arp Humours; their viscous ramous Parts dulling id entangling the sharp and corrosive Edges of hot umours.

In Tumours where viscous Humours obstruct the effels, and the Blood likewise abounds with hot d sharp Serum, lenitive Purges not only allay the leat, and evacuate and discharge the hot Serum, at also help to digest and dissolve the grosser hlegm. But in cold Tumours, where the Phlegm more stubborn, stronger Purgatives are to be ade use of, and more frequently repeated.

Lenitives Purgers are fuch as Senna, Cassia, Man-, Tammarinds. Crem. Tart. Elect. Lenitiv. Diaren. Diacassia cum Manna, Syr. Ros. Solut. de Rhaars, arb. &c. But where stronger Purgatives are conve-

cly lent, Pil. ex dusbus, Gambug. and Elaterium, may ture made use of.

Thus much may suffice concerning the Advantamia, es and Use of purging Medicines in General; but hen we come to particular Cases, we shall more tactly and particularly account for their Essects, the oth as they are affishant in the Cure, as Purgers, articled how they are beneficial as Alteratives. atternd how they are beneficial as Alteratives.

But

What is to be done in respect of the material con-

But to proceed to the other general Intentions the Cure of Tumours, we are not only to make u of Bleeding and Purging, which chiefly respect to antecedent Cause; (though they in some measure junet Caule, contribute to the Removal of the Conjunct) but are in the next place to have regard to those Intention which tend to the Removal of the Conjunct, or m terial Cause, as it is lodged in the Part, which account ding to Mr. Wifeman, are reducible to these two gen ral Heads, Translation and Evacuation, Translati is effected by Revulsion, Derivation and Repulsion;

Of Revulfion.

By Revulsion the peccant Humour is retracted to the Mass of Blood, by which means it lyes in t way to be carried off, or diminished by Bleedin Purging, or Alteratives, along with the anteced Cause; or to be translated into some other more mote Part; and this is the more to be infifted when any noble Part is concerned, or in danger; a may be promoted by Cupping, Bliftering or Li ture; which give occasion to the Parts to receive Matter retracted into the Mass of Blood.

vacuation by Discussion, Suppuration, and Apertic

Of Derivation.

Derivation chiefly respects the antecedent Cau where by giving the peccant Matter Diversion for other way, and in some Part near the Part affected is not fo plentifully thrown upon the Part tumified

Repulfron.

But to render Revulsion and Derivation by more effectual, Repulsion is necessary; for the M ter lodged in any Part is not easily retracted out the Part, without the Affistance of Repellents force and affift the Expulsion of it.

The Nature of Repellents.

Repellents are all either virtually, or potentia of an aftringent Nature: Those which are virtu Repetients, are so by their evident astringent Qu ties; but those which we call potentially Repelled are Repellents by Accident, and Astringents in tentia, and are of a cooling or anodyne Quality; Purstane, Lettice, Plantane, House Leek, which

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oling, and repel the Humours, by refrigerating e Parts; but such as Poppies, Mandrakes, suc. lan. Muc. Sem. Pfylii, repel the Humours by acdent, their anodyne Qualities abating the Pain hich inflamed the Parts, and encouraged the Fluon; whereas Flores Rofar. Equiset. Cort. Grator. Baluft. Sloes, Acorrs, Cypress, Nuts, Mulrries, Sumach, Bole Armenick, Red Wine, Sang. racon. &c. are Repellents, by their evident aftrinnt Qualities. Compound Repellents also are ch as act either by their evident Astringency, or they cool and refrigerate the Parts: As Ol. Rofar. nguent. Rosat. Popul. Album, Unguent. Nutrit. rot. Refrigerans Galeni. Emp. de Bolo, de Minio, cycratum, Oxyrrhodinum; to which I shall add the lowing Prescription from Mr. Wiseman. R. Suc. lan. plantag. Semperviv. aa 3ij Acet. opt. 3is. luc. Sem. Pfylii, Cydon extract. cum aq. Rofar, aa. M. In which you may dip Cloaths, and frequentrenewing them, apply them to the Part affect-; to which may be added, Pulv. Gland. Flor. s. Rubr. Balust. aa. 3ij. Bol. Armen. 3iij. Ol. lyrtil. Unguent. Rosat. an. q. s. f. mixtura, to be ply'd in form of an Emplaster over the part af-Red.

As to the Use of Repellents, it is to be observed, When to rst, That they are only to be apply'd in the Begin-be apply'd.

ng, whilst there is Hopes of preventing Suppuration, so rif once the Tumour tends to Suppuration, ey rather prolong the Disease, by cooling the rt and obstructing Digestion. Secondly, The se of them is to be forborn, when the Tumour malignant or upon the Crisis of a Fever; for in ch Cases, the Tumour is rather to be encouraged; ce, if the Humour should be repelled into the Mass Blood again, it might renew the Symptoms and use a Relapse.

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The manproducing their Effects.

Thus much being faid of the Use of Repellent ner of their before we proceed, it may not be amiss to conside the manner of their Operation; which will easily appear if we consider, that in Tumours made h Fluxion, the Parts are not only distended beyon their natural Tone; but that, by either the heat the Humours, or the heat acquired by Accident they grow inflamed and very painful. Now, the no Tumour can happen without an Extravalation or an Obstruction, which occasions a Tumefaction the Vessels; yet the Vessels may be so obstructe by the Groffness of the Humours, as to hinder free Circulation of the Blood, without totally fton ping it; for if they are so gross as not easily t pass through the capillary Vessels, the Blood, crowd ed on by fuccessive Pulsations, will distend the Ve fels for want of a free Discharge; so that an O firuction may happen without a total Stagnation for if once the Blood hath wholly loft its Circ lation, it will prefently coagulate, and cause a St gnation, and the Humours fo stagnating, will for tend to Corruption and Suppuration, equally as they were extravafated. But if in the beginning whilst the Vessels are only distended and tumese for want of free passage, after Revulsion made b bleeding and purging, Repellents are duly apply they will so constringe and contract the Part, ast affift the Vessels to press out the superfluous Hu mours, whilst they are yet fluid and only too this to pass the Vessels, without some acquir'd Ford to affift that of Nature. And that Repellent which are of an aftringent Quality, do contra and confiringe the Parts, and confequently affi them to press out the contained Humours, by a fisting their tonick Constriction, is evident from the Effects they have, not only upon the Parts when they are apply'd, but by their evident Effects upo the Tongue, which they prefently contract and maki

hake the Mouth rough; and even the Part it elf, to which they are apply'd, hath its Skin pre-

ently wrinkled and contracted.

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And as Repellents which are aftringent in Na. How Abre, evidently contract the Parts, so those which nodynes and ontribute towards the same Effect, by accident, are dicines afither of a refrigerating or anodyne Nature: Ano- fit Repetyne Medicines abate Tumour, as they relieve that lenus. ain which increases Fluxion; whilst refrigerating Medicines allay the preternatural Heat of the Hunours; and by abating the extraordinary Fermenation, not only contract the Parts, but the Hunours themselves, and consequently dispose them o yield more easily to the Assistance of Revulsion, nd to recover their free Circulation: So in a Vaix, the Blood collected in the diffended Vessel, upn contraction of the Vessel, by pressure, or any oher equivalent force, passes on and circulates with he rest of the Mass. And as the Humours conained in the Veffels by a partial Obstruction, may e pressed out by Repellents, especially assisted by he powerful force of good Bandage, so even then the Blood, or Serum, is extravalated, before flagnates and coagulates, by the Use of Repelents and Bandage, it may be pressed back into the Veffels.

But when once the Obstruction hath continued The He of o long as to become total, and wholly to hinder Repellents Circulation; or when the Humours extravalated, to be left off. egin to stagnate and coagulate, then Repellents re of no Use; the Matter thus stagnating, presenty tending to Putrefaction and Suppuration.

But before we proceed, to consider the Tumour Tumour s it tends to Suppuration; to make it more evi-produced lent, that a partial Obstruction is sufficient to cause without a Sumour and the Symptoms of it, Pain and Inflam- gruttion. nation; we may observe, that if only a Ligature e made upon any Part, so as to obstruct the free

Circulation

Circulation of the Blood, the Part below the Ligature presently tumesies and grows painful: To which Observation we may add, the known Effects of suppurative Bandage; and in an Hemicrania upon violent Colds, where the Glands are clogg'd and obstructed so as to hinder the natural Separation of the excrementitious Phlegm, by its proper Emunctories, the arterial Blood being deny'd its free Passage, the Arteries presently grow tumid and the Parts very painful, the Blood being to plentifully crowded upon the Extremities of the Vessels, and faster than it can be forced forward into the Extremities of the Veins; but when the Glands are so far relieved of their Obstruction that they are able again to separate that Phlegm the arterial Blood having its free Passage through the capillary Veffels, the Tumour of the Veffels ceases, and the Pain remains no longer.

But when the Matter collected in the Parts stage nates, and either may not properly, as when a Tumour is malignant or critical, or when it other wife cannot be expelled by the forementioned la tentions, it is to be discharged another way, via either by Discussion, or Suppuration, and Apertion

Discussion is such a Resolution of the peccant Matter as disposes it to be breathed out by insense ble Transpiration, or to be received back into the Mass of Blood; and since the Humour is coagula ted, fo as to cause a Stagnation, to dispose it to such a Discharge, it must be thinned and rarify'd and the Skin likewise must be thinned and render ed more lax, that its Pores being open, may more eafily give way for the Transpiration of the ran fy'd Matter; but if it lies deep, it will not easily be rog. carry'd off that way, but of the manner of Discussion

Since then in order to Discussion, the Matter not only to be rarify'd, but that the Pores of the

of Discusfion.

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kin are to be made more lax and open alfo, Medicahents of a Discutient Nature, must have warm and ubtile Qualities.

But if the Tumour have acquired Inflammation vith Hardness, such Medicines are proper, especilly in foft Bodies, as are not only rarifying, but alo emollient, as, Rad. Althee & fol. Malv. violar. em. Lini. fænug. fl. Chamæmel. melilot. sambuc. farin. ord. Lentium, which may be used in the Form of Cataplasms, made up with some of the following : viz. Ol. olivar. axung, porcin. ansers, gallina, sevum vinum, vitulinum, vaccinum. The newer these fats are, the more foft and emollient, but as they grow old and rancid, their Parts being more fubtile nd attenuated, they acquire discutient Qualities. To the Discutients already mentioned, we may add, Ol. Chamamel. Lumbricor. Sambuci, lini, Irinum & Emp. Diachyl. Symp. de melilet comp. and de Mucilainibus, also Fomentations made of Summitat. Abinth. Flor. Chamæmel. &c.

To these milder Discutients Mr. Wiseman thinks Whether it to add Astringents; but since he supposes Dif- Astringents tustion to be performed by Transpiration through promote the he Pores of the Skin only, Astringents must rather Discutients, hinder than promote it; fince instead of rarifying nd opening the Pores, they contract and shut them the up; but since Astringents mixed with Discutients, gula are found beneficial, we shall endeavour to account for their Essects a more reasonable way. Forms of Discutients mixed with Astringents prescribed by Mr. Wiseman are as followeth. By fol. & Rad. Al-hee M. j. Flor. Cham. M. ss. Flor. Ros. rub. Nymphee rail ha P. j. Sem. Cydon. 3j. Flor. Fabar. orob. aa 3iij. ss. ly be coq. in sero lactis & f. Cataplas. sub fine addendo ol. ros. iffion & chamamel. aa. q. f. Or, & fol. malv. parietar. plantag. aa. M. j. sem. lini. fænugrec aa. zj. summitat. ter Absynth. Flor. Sumbuc, aa.M. ss. Flor. Ros. rubr. M.j.

ceq. in q. f. vini tenuis, addendo farina hord. Ziv. ol.

olivar. immatur. q. f. f. Cataplasma.

If the Matter lies deeper, the following Cataplasm is prescribed by Mr. Wiseman. By Rad. Althe Ebuli, Iridis recent. 3ij. Rad. Bryon. cucum. agreft. aa. 3j. ss. Flor. Cham. melilot. aneth. aa. M. j. sem. lini, fenug. aa.. 3j. f. Cataplasma, addend. axung. Anseri,

anatis aa. 3j. mel. Commun. 3ij.

Where stronger Discutients are required, especially in cold Tumours, the following may be made use of. Summitat. Origan. Thymi, Calaminth. Pulet rerismarin. Hyperici, centaur. min. bac. Laur. Junip. Sem. Cymin. Rut. &c. Gum. Galban, Ammoniac, Bdel. lium, Opoponax. To which may be added these Compounds. Ol. fcorp. Nardin. Euphorb, petroleum, Unguent. Aregon. Martiat. Emp. de Ranis cum Mercur, de baccis Lauri, Cicute cum, Ammoniaco. To which I shall add the following Przscription from Mr. Wife man. R Rad. enul. Campan. Bryon. aa. 3ij. Summit. puleg, origani, Scabios. Abrotan. aa. M. j. bac. Lauri, Junip. aa. 3j. Sem. Cymini, 3ss. coq. in aq. fontan. o vini alb. aa. tbij. Colat. add. Acet. Vin. 3ij. Salis Nitri 31. M. f. Fomentatio. Or, By Cin. Sartarmentor Salis Nitri aa. 3j. ol. Vet. 3iv. Cere 3iij. Terebinth. clar. 3 M. f. Cerot.

What is to ed in refret of the

Thus much being faid of the Medicines proper, be confider- and commonly used in discussing Tumours, we shall proceed to confider more particularly the manner Effects of of producing their Effects. And fince the Matter Discutients, to be discussed is more firmly impacted and settled in the Parts, in the Increase, than in the Beginning; it will be requisite to consider, not only where it is lodged, and how Discutients attenuate and rarify it but also, when it is attenuated and rarified, which way it is most likely to be disposed of, and carried

> In respect of the Part where it is lodged, it must be either superficial, or deep; and consequently,

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Chap. I. Of Tumours in General.

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must with more Ease, or Difficulty, be affected and worked upon by external Applications; for the more superficial the Humour is, external Applications must affect it, and exert their Qualities with more Vigour; and consequently, the deeper it lies, the stronger Discutients will be required: But in regard to the Part in which the Humour is contained, we are not only to consider, whether it be superficial or deep, but likewise in what kind of Parts it is lodged; Viz. Whether in a sleshy or a glandulous Part; or, whether in the Interstices of the Muscles, or about their Tendons; by which means we may know, what kind of Humours are to be discussed, and how they may probably be carried off.

But to proceed, let the Matter be lodged in any Part whatever, from what hath been faid of the Nature of a Tumour, it is evident, that the Matter which Forms the Tumour, must be either coagulated in the Extremities of the Vessels, or else extravalated; and fince it is so firmly lodged in the Part as to relift the Effect of Revulsion and Repulsion, we are to consider, what Discutients may do with it. And fince they are applied only to the external Superficies of the Body, there must interpose a considerable Number of Veffels, through which several Humours circulate, according to the Depth of the beccant Matter; but if we consider the strange Porosity of human Bodies, (to evince which I shall refer the Reader to the Works of the honourable Mr. Boyle) and that Medicines which have discutient Qualities, are composed of Parts very penetrating and fubtle, and emit very fine Effluvia, which eafily, at a Distance, affect the olfactory Nerves; I say, if we consider all this, it will be no difficult Matter to imagine, how the fubtle Effluvia of Applications, penetrating through those Pores, may affect the peccant Humours in the Tumour; for though the

Humours which circulate through interpoling Vessels, might carry the Effluvia which pass into them, along with them, yet a great many would escape, and pass through the Interstitia of those Veffels.

How Difentients produce their Effelts.

Now fince milder Discutients confist of Parts, which are emollient, foft and mucilaginous, as well as that they emit subtle, aromatick Effluvia, it is but reasonable to think, that by their emollient Qualities they will not only relax and foften the Skin; but that, as all Emollients, they will be anodyne and affwage the Inflammation and Pain, and that by relaxing the Skin, they will render the Pores more open, and ready to receive the gentle, aromatick Effluvia. But when Discutients stronger, and more powerfully emit their Effluvia, they themselves by their subtle, active Parts, will not only open the external Pores, but penetrating through the Pores of the Body, they at last exert their attenuating Qualities, on that Matter which occasions the Tumour; where their volatile and active Particles infinuating themselves betwixt, the groffer Parts of the stagnating Matter they gradually separate and divide it's Parts, and restore it to it's natural State and Degree of Tenuity and Thinness. That the volatile, aromatick Effluvia of Difcutients, do penetrate the Pores of the Parts, and attenuate the peccant Humour, is evident from their Effects; and that they produce their Effects by dividing and separating the Parts of that Matter, is as evident, fince it could not otherwise be discusfed. But when that Matter is attenuated, the Queftion is which way it is dispersed; it is generally supposed, that it transpires through the Pores of discussed is the Skin; but though the fine Effluvia of Volatiles disposed of. may easily pass through the Pores of the Body, and be conveyed to the Part, yet it would be very difficult to imagine, how a Humour fo groß as to be

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ncapable of circulating through capillary Vessels, hould readily pass through the finest Pores; for if this distempered Humour could find Passage there, much more would the thin and more attenuated Mass of Humours pass that way; but since that is impossible, it is more reasonable to suppose, that, when that Matter is render'd thin enough, it circulates along with the Mass of Blood; for, from what hath been said, it appears, that an Obstruction may be made without an Extravasation; and when the Humour, though too gross, is contained in it's proper Vessels, it is more reasonable to suppose, that it circulates again, when restored to its natural State, than to contrive it an impossible way through the Pores of the Skin.

But supposing the Humour were extravasated, when it is again attenuated, it would sooner be reassumed into its proper Vessels, the way it went out; or pass through the Pores of its own Vessels into its proper Channels, than make its way through several Vessels to the Pores of the

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But when Discutients are made use of separatly, and the Humour lies superficial, and near the Pores of the Skin, they may probably dispose some Part of

it to go off by Transpiration.

All that I shall need to add farther in respect of the Effects of Discutient Medicines, is, That as their very subtle and volatile Effluvia, divide and separate, and confequently difintangle the coagulated Parts one from another, and thereby contribute to the attenuating of the Humour; fo, those minute Parts being in a quick Motion, raise a Ferment in the Part, and by their gentle Heat, cause the Humour there contained to expand it felf; by which means, the Parts of it being separated one from another, give way for the Serum of the Blood, or the finer Lympha to interpose its Parts, and so render it more fluid. So Glue immersed in Water, over a Fire, when the active Parts of the Fire separate the Parts of that viscous Body, they make way for the Water to interpose it self; and thus, betwixt them both, they promote its Solution, and attenuate so firm a coagulated Substance.

I shall only add one thing further, to shew how reasonably the Matter discussed may be supposed to circulate in its proper Vessels again; and that is, what we commonly observe in Tumours made by Translation; where the morbifick Matter which occasioned a Tumour in one place, is evidently reassumed into the Blood, and again discharged and

cast off upon another.

Suppuration, when to be promoted. But when the Matter which produces a Tumour, is so sirmly fixed in a Part, as to resist the Force of Discutients, and the Symptoms of Pain and Inflammation still continue, it is time to desist from the Use of them, and to make use of such Medicines as promote Suppuration, which are such as ease Pain and promote Concostion, by preserving and promoting the natural Heat of the Part. And that

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t is to be done accordingly as the Part it felf is eshy Part, which is of it felf warm, it will more ly be brought to Maturity, than when they prod from ferous Humours, which lie cold about Joints. If the Tumour proceeds from Blood, produces laudable Pus, if the native Heat be ong, or be encouraged by proper Medicines; but the Heat be faint, or other Humours be mixed th it, the Matter is accordingly more or less ide, and differs in Golour, or other Qualities. cording to the Qualities of the Humours.

If a Tumour be made by Translation, it somehes hath Matter in it from its first Appearance. t they generally lie deep under the Muscles, and casion no external Inflammation, till the Matter ches near the Skin; therefore in these Tumours, e Symptoms of Suppuration are not to be waited externally, but they are to be opened, as foon as y Quantity of Matters offers it felf, to prevent its

eading or corruping the Parts beneath it.

As for Medicines which promote Suppuration, Medicines ey are of two kinds, viz. Simple or Compound. which trobe Simple are Aq. Tepida used in Fomentation, more supum maturum, or the Fats of domestick Creatures puration. xed with Anodynes and Suppuratives. Fol. malv. rietar. Mercurial. decocted in Hydrolao with fari-Tritioi, &c. Rad. lil. &c. To these I shall add e following Forms of Cataplasms out of Mr. Wisean. R Rad. Althee. lil. alb. aa Zij. fol. Tuffilag. alv. bismalv. aa. M. j. coq. in brodio, terantur, adtis farin. sem. lini. 3j. farin. tritici 3ij. axung. porte of n. butyr. recent. aa. 3). ss. croci pulv. His vitel. ovi. In cold Tumours, or where from le Humours lie deep. B. Rad. Brion. Lapath. acut. sedie 1.3ij. coq. & cribrantur per set aceum, addend. cappar. h as allior. sub cineribus coct. aa. 3iij. ferment. acris. 3ij. ving dv. sem. lini & fanugrac. aa. 3j. tritici 3ij. axung. And por and

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porcin. 3 ij. mell. commun. axung. Anseris Croc. pul aa. 3j. M. f. Cataplasm. When the Matter tough, Gum. Galban. Ammoniac. Bdellium & Em de Mucilaginibus, Diach. cum Gum. &c. are conv nient.

As Suppuration is nothing, but a Tendency Corruption; fo whatever promotes and encourage the natural Heat of the Parts, and quickens Dig stion, hastens Suppuration, and the sooner inclin the stagnating Humours to corrupt and putrif for when once the Humours stagnate, and are e cluded from the rest of the Humours in Circulation they no longer can be esteemed Parts of that Bod but rather superfluous and excrementitious; thoug for want of free Vent for their Exclusion, they a still retained within its Parts.

And fince these peccant Humours, happen to discharg'd in Parts, where Nature is unfurnish with proper Veffels for their Exclusion, they fee

to force their own way by Suppuration.

How Suppromoted.

As for the manner how Suppuration is perform puration is ed, we are to confider, first, how it is performed Nature, and how it is promoted by Art. The b ter to understand how it is performed by Natur we are to confider the Qualities of the Humou which tend to Suppuration; and next, the Qual ties of those Medicines that affist Nature.

By Nature.

And first, If Blood be the Matter to be supp rated, or be predominant, fince it abounds not of ly with volatile Salts, but is also strongly impo gnated with fulphurous Particles, when it happe to stagnate and tend to Putrefaction, those sulphi rous and faline Parts presently separate and diff tangle themselves from the groffer Phelgm; at fince the Parts of all volatile Bodies, are natural Parts of the groffer Phlegm; and even the tended to Branches of the capillary Vessels themselves, till

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If the volatile and fulphureous Parts, being preominant, the Matter acquires the Form of Pus, d putrifies the adjacent Parts, till Vent is given, ther by their own Force, or the Assistance of rt.

Thus by gradual Degrees of Digestion, Suppu- How assisttion is promoted, which is likewise encouraged ed by Art. the natural Heat of the ambient Parts; for as e natural Heat of the Parts is greater or less, so e Matter of the Tumour is kept accordingly warer, its volatile Parts are sooner disintangled, and e Crudities digested, by the Influence of the warm fluvia of the Humours about it. And as the arm Effluvia of the Parts promote Digestion and appuration, so external Applications tend to haen the Intentions of Nature, which, as they cont of more or less warm Parts, the volatile Effluvia them, assist those inherent in the Matter more see owerfully to exert themselves.

Now as a Tumour is more easily suppurated, for hen the coagulated Blood is the occasion of Tu-ed our, by natural Heat, and the Assistance of exter-e by all warm Applications; so when the Matter of Tuatur our is Crude Serum only, or lies about the Joints, mour ere is still more Necessity of external Help, and Qual e Applications are to be so much the warmer, ice the Matter of the Tumour contains less volatile

But as Medicines that promote Suppuration, are Why Medimpro of only endowed with Parts that are warm and voinput tile, but also emollient and mucilaginous; we are
laginous
and emollithe promoting of Suppuration. Since then muciginous and emollient Medicines, tho' they have vomural tile Parts in them, yet, considered only as mucitet ginous, they consist of Parts clammy and tenacious,
tend id unapt to infinuate themselves into the Pores of
tille to Skin, and consequently, can have no direct Ef
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fect upon the peccant Humour; yet as they oh struct and stop the Pores of the Skin, they retain and keep in those warm Effluviums, which might pass off by Perspiration, and so serve as a reverba tory Heat, in concocting and digefting the Matte of the Tumour.

Discutients *fometimes* promote Suppuration.

Before we proceed, it may not be amis here to take notice, that Discutients themselves, if the Matter is too tenacious and viscous to be discussed promote Suppuration, fince they confift of Part which are warm and emit volatile Effluvia.

Tumours when to be orened.

When the Matter of the Tumour is suppurate and turned into Pus, it is necessary it should be di charged, lest the Parts about it should be corrupted or corroded, as the Veins, Arteries, Nerves or Ter dons: If it be near a Bone, or the Sutures of the Skull, it must be opened before the Matter com to a perfect Suppuration, lest the Parts beneat it should be damnify'd; as also, in Abscesses Ano, or near the Fauces; in the former the A Etum being in danger of Putrefaction, and for fe the latter should strangle the Patient. Likewise Abscesses of the Breast or Belly, we are not to wa for Suppuration, left the Tumour should break it ward; yet when Tumours are opened too foor they commonly are crude, hard to digeft, and long mot in cure.

Tumours to be opened.

Tumours are to be opened two ways, viz. eith

by Incision, or Caustick.

By Caustick.

Causticks are chiefly of Use in large Tumour where the Quantity of Matter is great, the Abscess is to be kept long open, or who Bandage cannot be conveniently applied to ke in Tents. As to the Place where they are to applied, it is to be observed, that it must be the most declining Part, for the better discharge the Humour.

Causti

Causticks are of different kinds, as Lixivium ob. tain aponis boiled to a folid Confistence, adding in the boiling to zvj. of the Lixivium, about 5j. fitr. Roman, and Op. Aj. Or a Caustick may be nade of a Mixture of Lixivium Saponis and Calx iv. or Lapis Infernalis, using due Caution to preent the Caustick from spreading farther than we the lesign, viz. by defending the Parts about with con-fied enient Plaisters, to keep the Caustick within Bounds. Art When the Escar is formed, it may be separated, fomenting the Part with Milk or Wine, and dreffing with a common digestive, and an Anodyne Catalasim over all. Or the digestive Basil, with Ol. Olioted war. may be sufficient.

Ten If a Tumour be opened by Incision, the Apertion, Or Incision. the pught to be made where the Matter is chiefly con-ained, drawing the Knife towards the most de-lining Part. The Incision is to be made according es to the Rectitude of the Fibres, except in the Groin r Armpit where it is to be made obliquely. In fe naking Incision care must be taken to avoid woundfeiting the Veins or Arteries, Nerves or Tendons. If we pon Apertion by Incision a Flux of Blood insue, it s to be restrained by proper Medicines, as pulv. Ga-en. or Ol. Terebinth. hot, which will likewise pro-note Digestion.

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If the Patient be weak and timorous, or the Fainting Wound large, fainting fometimes ensues, there-how relieore care must be taken not to discharge too much Matter at once; but if that Caution, nor a convepient Posture, by laying the Patient on his back, whe will relieve it, then proper Cordials are to be adke ministred to support the Patient's Spirits. The opirits are also to be refreshed with Epithemata, be made of some proper cordial Waters, or such Ingredients as may cherish and refresh the Parts.

If after the Apertion, and Discharge, there re-Hardness mains any considerable Hardness, either for want of how relie-

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Suppuration, or occasioned by Pain and Inflammation the next dreffing it will be convenient to make us of Fomentations made of emollient Discutients; Summit. malv. bismalv. Flor. Cham. summit. Absynth which will gently cherish the Parts; by their emol lient Qualities relieve the Pain, and by discussing and digesting the cruder Matter, relax the Tumous

After Incifron, what Dreffings are proper.

When the Tumour is thus opened by Incision and fomented, it will be requisite to dress the Par with Digestives, such as the following: Re Terebinth 3j. Far. Tritici 3ij. Croci. pulv. 3j. Vitel. ov. q. f. M If the Lips of the Ulcer be painful, it may be dress'd with the Yolk of a new-laid Egg, with of Rosar. the following Cerot being apply'd: R Mucil Sem. hni, fænug. althææ extract. in decoct. hord. 31 Ol. lil. asyp. amyg. dulc. aa. 3j. B. Terebinth 3j. cer. Zvi. aut q. f. f. Cerot. or Emp. Diachalcit. with Ung. de Althæ, in form of a Cerot, may be mad use of, with moderate Compress and Bandage. B these lenient Applications, the Part will be mol lified and eased of Pain, the Skin being softene and relaxed, and by convenient Bandage, the Mat ter contained within the Lips of the Incision, gent ly pres'd out as discutient Digestives dispose it.

How Digestives produce their Effects, I shall hereafter explain, when I come to speak of Ulcer in general; but fince we have here taken notion of the Opening of Tumours by Caustick, it will not be amiss to say something in general of the manner of working and forming an Eschar.

How Cau. an Es.har.

Since then Caustick Medicines, consist not on real sticks form ly of Parts very subtile, sharp, and consequent corroding, but also of Parts tenacious and viscous we shall not only consider how those corross Parts produce their Effects; but also, how the lix no vious or viscous Parts assist them in their Con the rolion; and fince they are applyed only to the Superficies of the Cuticula, we are likewise to con-

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der, that as all Bodies, and each Part are fubest naturally to a constant Transpiration of a seous Humour, which passes through the Pores of he Cuticula; so the Cutis it self is furnished with nol Glands innumerable, design'd for the Separation of this Humour, and proper excretory Vessels to our convey it to the Pores of the Cuticula. nce this Humour is constantly by the Course of Nature, transuding through the Cuticula, upon the Application of a Caustick, the viscous tenatious Parts stop up and obstruct the Pores of the Cuticula, so that the Serum which usually passed out through them, can be no longer discharged, but is heaped up and collected betwixt the Cuticula and Cutis: But though the Pores are so stopped as to prevent the Exit of the Serum, yet with the very subtile and penetrating Particles of the Caustick, may infinuate themselves and mix with B hat Serum which ought to have been discharmol ged; and fince that Serum is of so sharp a saline Nature, as when it is by accident retained too long, to fret and corrode the Parts about it, when it is strongly impregnated with the corrosive Particles of the Caustick, it acquires so great an Acrimo-ny as to corrode and destroy the Parts with nuch greater Violence, the subtle and sharp Parotic cicles of the Caustick infinuating themselves betwixt the Parts of Matter that compose the Vesthe els, and by that means dissolving their Texture and Continuity. Nor does this Caultick Quanty teafe or lose its Force, till the Matter corroded is sufficient in Quantity to intangle all its Parts, for that they being separated and dispersed wholly in their own Ruines, are able to exert themselves no further, but lie buried and stiffled in the Escharthey have formed.

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How the Separation of the Ef char is made

When the Eschar is formed and dressed with Digestives, though we consider not here the Us of Digestives in General, yet it will not be amile to enquire how they promote the Separation that Eschar. Since then that Part of the Eschar which is next to the found Parts, is not fo do and crusty as its outside, but is constantly moisten ed with that natural Humour which flows from the found Part; and fince that Humour there stage nates, and is out of the Way of Circulation, it will have the same Tendency to Suppuration as the Matter which first occasion'd the Tumour, and will have the same Assistance from Nature and external warm Applications to affift it, besides be ing in some measure impregnated with corrolly Effluvia from the Eschar, it will the sooner b disposed to Rottenness and Corruption; and whe it is fufficiently suppurated, that suppurated Mat ter interposing betwixt the found Parts and the Eschar, must needs separate and make it loose and cast off.

Now when the Eschar is separated, and the Part sufficiently digested with Basilic. dip'd in 0 Lil. Terebinth. or any other proper Digestive, will be convenient to make use of Detergents, suc as Mundif. ex Apio, or Paracelf. the latter of which is thus made: Re Terebinth. clar. mellis despuma aa. 166. vitel. ov. No. iij. coq. ad confist. unguent. the Matter of the Ulcer hath not sufficient for Discharge, it must be helped by Compress an Bandage; and if the forementioned Detergent are not ftrong enough, they may be quickened wit Merc. precip. rubr. or alum. uft.

If Detergents are not too strong, they will als ferve to incarn; or the following may be made u of: R Terebinto. Venet. Ziiij. Pulv. aristolochi. 1 tund. Ireos. Thuris aa. 3iij. Mastich. Myrrh. Alo ãa. 36. Cadmia 5vj. Mel Rosar. q. s. f. Unguen et with If the Flesh grow loose and spungy, it may be gent-Ut touched with the Vitriol Stone, or Alum, which mil will make the Flesh firm, and likewise dispose it e better to cicatrize.

n of When the Tumour is incarned, it may be cicadn vized with Unguent. Rubr. deficcativ. or calcis, &c. Thus much of Tumours in General made by As for Tumours made by Congestion, uxion. e Cause and Symptoms being of a different Na-

re, fo the Intentions of Cure also vary.

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And first, Bleeding is not so absolutely necessa-, the Constitution being colder and without a ever; and in weak Bodies it is altogether to be oided, lest it incline the Patient to a Dropsie. lowever, Purging ought to be stronger to dislarge that gross Humour which occasions the umour, as Agarick, Hermodact. Scammon. Jalop. olothynth. Pil. coch. ex duobus, Elect. è Suc. Rosaun, &c. Derivation by Issues or Setons are also feful, Discutients are also ferviceable, but they ust be of the hottest kind. They feldom fupurate, except they have Blood mixt with them; n of at when they have, they are to be treated all ne as Tumours made by Fluxion.

To what hath been said of Tumours, it only re-what Rewhich pains that we should add, what Regimen is to be gimen in
befored in Diet, which is to be varied according Diet is to
the Difference of Constitutions, and the diffe-be observed,
ent Natures of Tumours.

In Tumours made by Fluxion, if the Patient be an gent frong and full of Humours, and the Inflammation onsiderable, a slender cooling Diet is convenient; out if the Patient be weak and thin, such Diet as will cherish and support Nature, and of easie Die ul estion, are proper; but whatever is of hard Dieftion, which may heap up Crudities, must be a-Alo loided. If a Fever attend the Tumour, it must e treated accordingly. As for Drink, the same Rules

Rules are to be observed as in Eating: For if the Patient be strong, and the Symptoms violent, H fans or small Liquors are convenient; but if the Person be weak, it will be requisite to make of fuch Liquors as may support his Spirits a preserve the natural Heat. And even in strong Bodies it is to be observed, that if, except New fity requires, the accustomed Habits be altered once, and the common Course of Nature, it for quently happens to be prejudicial and occasion H mours to be heaped up of another kind, as pr judicial as those we would correct. However, the the same Diet and Method of living be observe yet it ought to be more sparingly. The Air ough to be temper'd fo as neither to be too cold to chil nor too warm to inflame the Humours. As f Exercise, if the Tumour be large, it will forb that it felf, but if small, the Consequences w not be material. Sleep ought to be moderate, a forbidden in the Day, perverting the regular Cour of Nature, and making the Patient restless at Nigh

In Tumours made by Congestion, the Diet ought to be moderate in Quantity, but such as is he ing, strenghthening, and attenuating, and easier Digestion. Their Drink likewise ought to be such as will strengthen their Spirits and Blood: As A or Wine, or if the Humours be thin, their Dring may be made of medicinal Ingredients, as Sarlaparil. China, Lign. Guai. Lestiscin. &c. The Alought to be warm and attenuating, and their Experience.

ercise and Sleep moderate.

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CHAP II.

Of an Inflammation or Phlegmon.



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N Inflammation or Phlegmon, is a Description hot Tumour of a red Colour, atten- of a Phlegded ded with Tension, Pulsation, Pain, mon. and circumscribed Hardness, and a Fever, if it be very large. The Reafon of its Symptoms may eafily be

ccounted for, by confidering its Caufe.

Phlegmons differ, either according to their Place, Differences. as whether internal or external; or according to the Part affected; from which they are called by different Names. If an Inflammation happens in the Lungs, 'tis called a Peripnumonia; in the Pleura, Pleuritis; in the Throat, Angina; externally near the Throat, Angina Notha; in the Eyes, Opthalmia; in the Glands about the Ears, Parotis, &c. They differ likewise according to the difference of the Matter that forms them, being either simple or fie compound, when complicated with some other Difemper, from which they take their Denomination; s A and thus a Phlegmon may be either said to be Erisype-Drin latodes, Phlegmatodes, Oedematodes, or Schirrhodes.

As to its Cause, we are to consider the Nature The Cause. e A of the Antecedent, as well as the material and conjunct Cause; as also we are to observe the manner how that Matter occasions the Tumour, which is

the formal Cause. And first, as to the antecedent Cause; since the Blood, as well as the rest of the Mass of Humours, as long as it retains its natural Crass, and is free from a Mixture of heterogeneous Parts, is capable of circulating through all the most minute capillary Vessels, consequently no Disease can happen:

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happen: But if by Accident, the natural Crass and Disposition of the Humours happen to be altered and depraved, those depraved Humours being gra dually heaped up to a Quantity, they at last cause fuch an Alteration, as to produce some evident Esset Grossphleg Now since in a Phlegmon it is evident that the na

matick Humour .

tural and free Circulation is perverted, it must hap pen, because the Humours are too gross to pas through the small capillary Vessels; how the Hu mours for want of free Circulation, may occasion Tumour, Tension, Pulsation, and the rest of the Symptoms of Tumour, I have already shewed in the foregoing Chapter of Tumours in General: I will be fufficient therefore in this place to take no tice, that as the Blood, or other Humours, are to gross to circulate, that the antecedent Cause mu be Phlegm, the Blood or its Serum, or both, being by a mixture of it, rendered too thick, and confe quently apt to obstruct the Vessels; and since the conjunct Cause, which is the Matter of the Tumour, thus shews us the Nature of the Antece dent, it may not be amiss to consider how the Blow au and its Serum come to be too gross and thick. An er that may happen either by an internal or by an example. ternal Cause; by an internal Cause the Blood and est its Serum may be rendered too gross, when by for Crapula, the natural Digestion is deprayed, or whe cast by the Fault of the Stomach and Indigestion, the cin Chyle is not sufficiently concocted and purged and ed ed up in the Mass of Blood, and make the Serum of the Blood gross and thick; and that Crudities eco thus heaped up in the Mass of Blood, may, and de occasion Tumours, is evident, since those Bodie not that are most subject to them, are not only phlethous s rick, but likewise full of gross Humours and Carry, cochymia; and as those Bodies which are plethorid hie and phlegmatick are generally more subject to them wh than

How the Blood and Serum come to be 200 grofs.

rt I Chap. II. Of a Phlegmon.

s and man others, so accordingly as they are more or less anguine and hot, they are more or less attended gra with Heat and Inflammation.

But the Blood and Serum may not only be renffed er'd too groß and thick by Indigestion, but also w external Causes; as by violent Cold; for though he Blood and Serum be well digested and of their atural Crasis, yet by the Violence of external Cold. hey may be fo chilled and coagulated as to be rener'd unfit for Circulation, and that the Blood and erum are too gross and thick to circulate freely, evident, not only from the conjunct Cause, which a Specimen of the Antecedent, but is also appaent in the Blood drawn from such Bodies, which is anifestly too thick, and the Serum viscid and

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From what hath been faid, it appears that a onk hlegmon may be occasioned by the Blood and Sethe hum, being took thick, as is evident in pleuritick Blood, where the Blood and Serum are both in fault; yet in some Phlegmons, though both be allow aulty, they are only occasioned by the Fault of the An Berum, the Tumour being made in glandulous Parts, nex s Angina, Parotu; but those which are formed in eshy Parts, have a Mixture of both concern'd; by for though the Serum it self were only the Ocwhen rasion, yet if Serum occasion an Obstruction, and the linder the free Circulation, the Blood being stoped with it will also make up part of the conjunct neap Cause of the Tumour, though being of a good Temrum perament, it perhaps might be no part of the an-

itie ecedent Cause.

d do But in Phlegmons, the Blood and Serum are The Matter odia not only too thick, but sometimes this groffer Serum of Tumours s endowed also with other Qualities, as Acrimo- complicate. Carry, or tinctured with cholerick Parts, or accomparick nied with a thin sharp Serum; but of those more hen when we come to the particulur Cases. It is sufficient

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ficient here that we have shewed how a Phlegmo may be produced by the Grofness of the Blood or Serum, or both; yet in plethorick Bodies, when the Vessels are much extended, and the Blood ho and in a great Ferment, it may perhaps force it fe fo plentifully upon the tender Veffels, as to occasion a Rupture of them, and consequently an Extravala tion and Tumour, as I have thewn in the forego ing Chapter of Tumours in general.

Thus much of the Causes of Phlegmons. As a their Symptoms, of Tension, Pulsation, and Pain they have been already accounted for in the Ch pter of Tumours in general: And as for their ci cumscribed Hardness, that must proceed either from the violent Extension of the Vessels, whilst full, the Groffness of the Matter contained in them after the Tumour is open, Vent being given for the thi part to run off, the groffer being left behind.

The Dia+ enosticks.

Having faid what may be requisite as to the Causes of Phlegmons, especially those which are ternal, which are the Subject of this Chapter, w shall proceed to their Signs or Diagnosticks, which are great Pain and Heat, an inflamed red Colou with Swelling, Hardness, Pulsation, and Tension When the Tumour is at its State and suppurates, rises into a Cone, and the Matter may be perceive to fluctuate under the Fingers, the Skin being the and of the Colour of the Matter under it; and the rail the Symptoms abate.

The Proexosticks.

The Prognosticks are good when the Tumor diminishes upon the Use of Repellents or Discut tu ents, or when the Matter tends to Suppuration, and ripens into a well digested Pus. If the Tumo hic fink, and the Accidents and a Fever continue, it an ill Sign, for either a Gangrene or some oth ill Symptoms fucceed: If the Tumour were up gu the Crisis of a Fever, a Relapse is occasioned, while is often fatal. It is an ill Sign also when the Ma

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grows hard, and the Pain ceases, there being nger of a Schirrus. These Tumours are more icult of Cure in fat People than lean, and about dinous Parts than in fleshy ones, and have more lent Symptoms. After large Tumours purging necessary, and such Medicines as may regulate Crasis of the Blood, lest Crudities and Weaks lead the Patient into any other Disease.

In the Cure, there are four general Intentions: Intentions e first is, to observe a regular Diet, and a due of Cure. e of the rest of the six Non-naturals. The Send is to prevent the Influx of Humours. ird is, to evacuate the Humours already colfrom the din the Part. The Fourth is, to remove and

event ill Accidents.

And first, The Diet ought to be moderate, lest The first Ine thing Humours being heated, or the Vessels filled too tention. , should occasion them to flow too much upon the Part affected; yet regard is to be had to the recentient's Habit of Body, and the Custom of Lir, wang; for as the altering of a customary Way of which lying is prejudicial to a Body in perfect Health, olou uch less is it convenient to alter the Course of ensire ature when it is already perverted. Drinking is tes, to to be regular, yet suitable to the customary in equipment, which ought not to vary in Quality, but get in Quantity; for if the Blood wants its national Degree of Fermentation and Heat it will the ral Degree of Fermentation and Heat, it will, being depressed, grow dull and Phlegmatick; inform hereas on the contrary, if it be exalted above its iscut tural pitch, it will not only increase Inflamma-ation on, but cast off and separate a great deal of Phlegm, inch might otherwise retain its mixture with the it lood, and continue inseparate from the Mass. As other the rest of the six Non-naturals, they are to be up gulated as observed in the Chapter of Tumours general.

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Intention.

The fecond The fecond Intention is, to prevent the Influx Humours, which is to be done, by emptying the Vessels, and evacuating the Cacochymia. The fi is done by Bleeding, which being in Quantity cording to the Strength of the Patient, makes R. vulsion by emptying the Vessels, and eases Pa by abating the Heat of the Blood. The latte viz. discharging the Cacochymia, is done by pu ging Medicines of lenient Qualities, which ma Evacuation without heating, fuch as Elect. La tiv. Diacatholicon, Cassa, Manna, Tamarind, Cre Tartar. Infusions of Senna, Rhubarb, &c. But h fides bleeding and purging, it will be requisited give fuch Draughts as are of an anodyne Quali to compose the irregular Motion of the Spirits, and fo allay the Heat of the Blood; as Emulfions the greater and leffer cold Seeds, with Decoct. Hi dei, and Syr. de Mecon. Papav. Rhead. Paraly. &c. in proper Vehicles.

The third Intention.

The third Intention is to discharge the H mours already collected in the Part, and which the immediate conjunct Cause of the Tumou How Revultion, Derivation, Repellents, Discutient &c. contribute to this Intention hath been ful de ciently explained in the former Chapter of I mours in general, I shall here only add some property per Forms in each particular Intention from M Wiseman.

And first as in the Beginning it is necessary make use of Repellents, except in Tumours white are either malignant or critical, any of the follow ing Forms may be convenient. Re Ceræ alb. Ol. Rosat. omphac. thy. novies laventur aq. font. inde aceto subigentur. Or, R Emp. Diachalc. Bol. Armen. 3iij. Bac. Myrt. 3ij. aceti vini coch. Jace Ol. Myrt. q. f. f. Cerot. Or the following; R. Fan . 1 bord. 3vj. Cort. granator. pulv. 3ij. Pulv. Balust. Suc. Sedi. Maj. 3ii). Vini rubr. q. f. coq. ad con y I g th

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ux ant Cataplasm. & in fine Coctionis add. Ol. Myrt. but they must be renewed every Day, otherfe they will grow too dry and only heat the y a Tort.

When Tumour and Inflammation increase with Pa ardness, it will be requisite to add to Repellents, att: Ich Medicines as may foften and affift Repellents, pu dissolving the Humours; in which case the folmat wing may be convenient: Re Fol. malv. parietar.

Let antag. aa. M. j. farin. hord. & fabar aa. 3j s.

Cre for. Ros. rubr. pulv. 3s. coq. in aq. fontan. f. Cata
it be asm addendo in fine Ov. integr. No. ij. Ol. Cham.

ite far. q. f.

If the Tumour grow so hard that Repellents are be desisted from, emollient Discutients are to be ade use of, as Be Rad. & fol. Althou aa. M. j.

Hom. lini & fanng. aa. 3vj. Flor. cham. melil. pulv. the Tumour decline, & Fol. Parietar M. ij. Sem. ich ni fænug. aa. zs. fummit Absinth. anethi flor. Cham. mou mbuci pulv. aa. ziij. Flor. ros. rubr. zs. Farin. lentiem um & fabar. aa. ziv. coq. in Vino & f. Cataplasm. dudend. Ol. Lumbric. anethi aa. zij. Mel. com. zj. ss. s. s. R. Emp. de Mucilag. oxycroc. aa. zij. diachyl.

The fourth Intention is to remove Accidents, The Fourth which Pain is the chief, for it not only exhausts Intention. ary he Spirits and destroys the Temper of the Part, white at also increases Fluxion. To remove this Sym-ollo from, the following Cataplasm may be proper. b. Fol. Visc. pomor. cum fructibus, aa. M. j. fol. hyofnt. Jam M. ij. fol. pangu M. i Cit. de. 3 per, addendo tandem mic. panis alb. in lacte tepido och. vacerat. His. vitel. ovor. No. ij. Croci 3j. Ol. Cham.

Fan Rosar. aa. q. s. f. Cataplasm.

ust.; If a Fever attend the Tumour, it is relieved l colly Bleeding, and relieving those Symptoms which

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promote and encourage the Disorder of the Spirit and the violent Ferment of the Blood, and ceases when the Tumour terminates, whether it be in

Discussion or Suppuration.

As for the manner of Suppuration, and the Ou lities of Medicines that promote it, we have ful ciently explained them in the Chapter of Tumou in General, being fuch as encourage the natur Heat of the Part and the inherent Qualities the Humour which forms the Tumour, by the volatile Effluvia, and causing a reverberatory He by stopping the Pores of the Skin, as all much ginous and viscous gummy Parts do. To promo Suppuration, I shall transcribe the following For from Mr. Wiseman. R Rad. Althe. & lil. alb. Ziv. branc. Urfin. M. j. coq. in Brodio aut lacte mollitiem, deinde add. medul. panis alb. tbs. fe lini pulv. Zij. axung. porcin. gallinac. Zij. Vin ovor. No. ij. Croci Zij. M. f. Cataplasma. Or Ren lil. Ziij. cepar. coct. sub cineribus Zij. Summit. Alth M. ij. cancar. ping. toft. No. vj. coq. & contusts al fann. trit. 3ij. pulv. sem. lini 3j. axung. porcin 3 Unguent. basil. simp. 3j. Ol. lil. q. s. cum vitel. vi & Croco f. Catapl.

When the Tumour suppurates, the Sympton decline, except it lie deep, and then they continutill the Matter is discharged. When Tumours a opened too soon, they are crude and long a hading; and on the contrary, if the digested Matter too long retained, it will be apt to corrupt to Parts about it, and if deep, may occasion Simsty. How a Tumour is to be treated after Apt tion, hath been shewn in the Chapter of Tumour in general, and will be further accounted for

the Chapter of Ulcers in general.

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CHAP. III. Of an Erysipelas.

N Erysipelas is a hot Tumour which Description. affects the Superficies of the Skin, with a shining pale red, or citron Colour, without Pulfation or circumscribed Tumour, spreading from one place to another. It commonly

egins with some little Rigor, and is continued vith a Fever.

As the Humour more or less degenerates from Differences. the state Humour information of the state from the state of the state Ryn Complication they acquire additional Epithites, as Alth Eryfipelas Oedematoides, Phlegmonoides, Sheirhodes, &c. A simple Erysipelas only affects the kin of the Face, Head, Breast, Back, Legs, Thighs, or Arms; but when it is compound, and nixed with other Humours, the Flesh and other diacent Parts are affected with it. As the Huhour is less or more virulent, so the Part is of a red r other Colour.

As to the Cause of a simple Erysipelas, since it The Cause of the Part, and then the Nature of the sipelas from Sime Humour. And first, the Skin is not only furnished an internal Approvith a great Number of small capillary Vessels inerwoven betwixt its proper Fibres, but also a vast Number of small Glands for the Separation of hat Serum which goes off by infensible or fensiple Transpiration; as also proper excretory Vesels to convey it to the Pores of the Cuticle. Cutis is likewise furnished with an infinite Number

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of sensible Fibres, which make it capable of distinguishing by Touch, very fensibly, whatever Bodies are contiguous to the Cuticula; but when they have an immediate Contact of any thing, without the Interpolition of the Cuticle, they are of much more exquisite Sense. Having thus considered the Structure of the Part, it must follow, that what. ever produces a Disease in this Part, it must shew its Effects either in the Blood-Vessels in these Glands, or the excretory Veffels, or it must lie betwixt the Cutis and Cuticula for want of a Difcharge through the Pores of the Cuticula, and as it hath different Qualities, variously affect the fibrous papillæ that form the fenfory of feeling; fince then in these Parts, as well as in all others, the Humours will have their free Passage, and discharge, as long as they retain their natural Degree of Fluidity; for though, the Blood or Serum should be either too sharp or cholerick, yet I say, if it retains its just degree of Fluidity, it would still maintain its free Passage without producing any violent Symptoms; as it does in scorbutick Bodies where the Serum is very sharp and acrimonious; yet fince it is thin and fluid, it hath no ill Effects in the Skin, though in other Parts it shews in acrid Qualities, as in Opthalmia's, where the Sharpness of this thin Serum is offensive to the Eyes; or else it shews it self in spitting even to the Degree of a Salivation; and in the Jaundice though the Blood and Serum are strongly impreg nated with Choler, yet being thin enough to cir culate along with the Blood, it produces no ther Effects in the Skin than to stain the Parts with its Tincture.

From what hath been faid, it appears, that whatever produces a Difease in the Skin, especi ally a Tumour, it must be because it is too gross and thick to circulate through the Vessels; and

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e the fanguiferous Vessels contain both Blood dies fin Serum, if the Effect be produced in them, it v be either the Fault of the Blood or Serum, both; but if it be produced in the excretory fels, through which it is to be discharged, it It be the Fault of the Serum, fince the Blood not come there without a Rupture of the Vefand an Extravalation: That Blood is concernin this Tumour, is evident, fince for want of free Passage, the Blood-Vessels are so extended to make the Skin appear more ruddy than naally, and that the Serum is likewise faulty is as in, fince for want of its being thin enough to s through the excretory Pores, it stains the Suficies of the Skin of a yellowish Colour, as it pens to be more or less virulent; and often for nt of its Exclusion separates the Cuticula and es Blifters.

Now as the Retention of the morbifick Matter the Skin is occasioned by its being too gross to s through the Veffels; so when it is so retained, produces different Effects according to its other erent Qualities. If the Blood be only impregled with cholerick Humours which heat and ame it, and render the Serum only sharp and id; the Skin then appears only of a red Cor, the Vessels distended with it, only distinguishthemselves; but if the Serum of the Blood be much impregnated with cholerick Parts, as to e it a Tincture, it then stains the excretory Glands, likewise the Cuticula, so that the Cuticula apirs to be of a yellowish Colour; but when both Blood-Vessels are distended, and the Serum is derately stained, the Yellowness of the Cuticle es not altogether over-power and hide the dinded Blood-Veffels, the Skin appearing of a yelvish Colour mixed with red.

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The Caufe of an Eryfipelas whence.

From what hath been faid, it appears, that a Erysipelas proceeds from hot cholerick Blood and Serum, being too gross to pass through the Vessel freely, as the humours ought to do naturally; now fince the Skin is plentifully furnished with nervou papilla, when this sharp pungent Serum is retained by its Grossness betwixt the Cutis and Cuticula, pricks and vellicates the nervous papille fo much as not only to cause a sensible prickling Pain, but also a violent Sensation of Heat.

Having hitherto given a rational Account of the formal and conjunct Cause of this Disease, from thence it is easily known what was the Anteco dent; fince this hot cholerick Blood, complicate with Phlegm, must needs be in the Mass of Bloo before it could be thrown upon the affected Par Now when the morbifick Matter happens to lodg it felf in any Part, as the Blood hath more or le of the same kind of Humour remaining in it, is the Disease attended with a more or less violen Fever. If a Fever preceded the Erysipelas, then it critical and Symptomatick; but if an Eryfipel precedes the Fever, then the Fever is only fympto matical, and ceases with the Erysipelas.

Of an Eryfipelas from an extern1l Cauje.

Thus much of an Erysipelas proceeding from But fometimes it proceeds part internal Cause. from an external Cause, as Contusion, Fractur the Heat of the Sun, Fire, or sharp Medicina yet these external Causes contribute not to the Distemper without a predisposed cholerick H mour in the Mass of Blood; but when there is predisposed Humour in the Blood; when the Blood by any Accident is put into a more than ordin ry Heat, this predifposed Humour is by that mea separated and discharged upon some Part or oth where it exerts its Qualities; and by occasioning a violent Sensation of Heat and Pain, disorde llh the Spirits, and puts the Blood into a more thand dina

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nary Ferment, which causes a greater Flux of fumours to the Part, and confequently greater ain, till at last the Blood being violently heated, roduces a symptomatick Fever.

The Diagnosticks of an Erysipelas, are a shining The Diaellowish Colour, mixed with red here and there, gnoflicks. violent Heat with a pricking Pain blistering the

kin, and moving from one Place to another.

As to the Prognosticks, a simple Erysipelas hath The Progery moderate Symptoms, the Fever decreasing as noffickshe Erysipelas increases, the Mass of Blood being much the more free of the distemper'd Humour. the Humour be drove back or retracted into ne Mass of Blood, it causes violent Symptoms, nd often Death. Suppuration in an Eryfipelas not good, it being fucceeded by Corruption. n Eryfipelas upon a Bone is very ill, especially a Delirium happen upon it, any Distemper afcting the Brain, being of ill Consequence. The est Termination for an Erysipelas is by Transpiraon, fince it shews that the Humour is corrected nd rendered thin enough again, to pass through he Vessels designed for the Separation and Exlusion of it.

In the Cure of an Erysipelas, we are chiefly to The Cure, onfider the Habit of the Body, which fince it aounds with cholerick Humours, the Cure is chiefly be effected by Diet and internal Medicines.

The Diet ought to be fuch as may moderate nd dilute the cholerick Humours, both to temerate the violent Heat of the Blood, and to difofe the Humours more easily to go off by Mediines; as Grewel, Panadoes, Chicken-broth with ooling Herbs. Their Drink, Ptisans, Emulsions nd cooling Juleps; as Aq. Boragin. Endiv. ace-of. Lactuc. portulac. &c. with syr. e Succo Citri, orde Limon. granator. Rhub. Idai, violar. &c. avoiding land II hot Liquours that may heat and inflame the

Blood. E 3

Rest is to be promoted by gentle Ano-Blood.

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most requifice.

If an Erysipelas happen upon Wounds, or as Bleeding is fects the Head or Throat, Bleeding is convenient; when the Head is affected, lest it affect the Brain likewise, and cause a Phrenites; and when it as fects the Throat, lest it cause an Angina, and en-But if it happen only in the danger Suffocation. Skin, where no noble Part is concerned, Bleeding is to be avoided, lest it make a Retraction of the Humour into the Mass of Blood, and occasion ill Symptoms: In fuch Cases the Humours are to be discharged by purging Medicines, which are lenient and evacuate without putting the Humoun into a Ferment and heating the Blood; as Cassia, Manna, Rhubarb, Tamarind, Crem. Tart. &c. in Whey, or a Decoction of the opening Roots, with Syr. e Cichor. cum Rheo, Syr. Rofar. folut. Or Elect. Lenitiv. Diacatholicon è suc. Rosar. When pur ging is not convenient, it is proper to keep the Body open by Clysters.

If an Eryfipelas proceed from external Causes it may be convenient to use Medicines of a cook ing Nature, yet not too aftringent, lest they him der Transpiration, and so by retaining the Hu mour, render it sharp and corroding, or incline it to the Apostemation; they ought also, beside their refrigerating, to have lenient Qualities to al lay the Pain and Inflammation: Simple Medicine proper in fuch Cases are, Umbelic. Veneris, polyga num, plantag. trifol. patustre, portulac, psyllium, sem pervivum, solanum, &c. Compounds are, Ceratun Galeni, Unguent. Nutrit, with a third part of Po Feve puleon: Or, R. Cerufs. Zviij. Lytharg. Auri 3il exaf Mucilag. Sem. psyll. cydon extract. in. ag. Solani Suc. Solani umbelic. Veneris aa. Ziij. acet. cochl. it inter Ol. Rof. & Myrt. aa. His. Sevi vitulin. Ziv. on use

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In an Eryfipelas proceeding from an external Cause, there is not so much Danger of retracting or repelling the Humour into the Blood again, fince in fuch Cases the Blood does not so much abound with the predisposed Humour, but that it might be contained amongst the rest of the Humours, without any evident ill Symptoms, were it not excited by external Causes; therefore those concurring Causes, and the Symptoms, being obviated and appeared by proper Applications, the Humour may fafely fwim in the Mass of Humours as before, till it can conveniently be discharged by

lenient Purges and proper Medicines.

But if an Erysipelas proceed from an internal A Caution. Cause, since it is the Quantity and Qualities of the peccant Humour within, that occasions the ill Symptoms both in the Blood and the Part affected, and excites Nature to make a Discharge. it must consequently be of ill Consequence to drive the Humour back again into the Mass of Blood, out of the Parts; fince by its Discharge the Fever and internal ill Symptoms being abated, must confequently be exasperated upon its Retraction or Repulsion, the Quantity of peccant Humours being by that means augmented within, and Nature overpowered with a greater Quantity than can be mixed and retained amongst the Mass, and should she be forced to make a fecond Discharge, it might happen to be upon some noble Part, and occasion very dangerous Symptoms, or Death; besides the Fever it felf by this Means, would again be more exasperated and violent.

In an Erysipelas therefore, proceeding from an lik internal Cause, though it may be proper to make use of cooling Applications to temperate and moderate the excessive Heat of the Parts, and to check

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the violent Ferment of the Humours; yet then ought to be milder, and not fo firong as to repel and drive the Humour back again into the Blood; but Medicines which moderate the Heat and Inflam ma tion by their lenient Qualities, and which promote the Discharge of the Humour by Transpiration, and much safer; yet Care must be taken lest such Med cines as promote Transpiration consists of hot Parts which may add to the Heat and Inflammation Decoctum Salvix with a Solution of Castile Soap may be fufficient, applying afterwards Ceratum Ga Ton In those that are critical Ol. Olivar. cum Cer may be proper. If the Heat be violent, external Applications are frequently to be renewed, lest the become too dry, and excoriate the Parts. If the anth Parts exceriate, the Exceriations may be dreffe ith with the following R Troch. alb. Rhafis & Tutie last pulv. aa 3i. fs. plumb. uft. 3i. camph. 3fs. ceruff. 3i. ft a 3 ol. Ros. 3vi. sevi agnini 3 iij. ceræ alb. q. s. f. unguent ulv in mortar. plumbeo, per duas horas agitat. or unguent eine Tutiz may be made use of. If Fomentation be ne If ceffary Olibanum and Myrh decocted in Wine, a peing a Decoction of Coleworts is commended: Also as and in calcis shaken together with ol. Lini, or sacchar. Si te p turni, beat up with ol. Rosar. may be made use of ally applied with a Feather twice or thrice a day; their enumerate descriptions being lenient, and moderately drying up the Humours, and cooling the Parts without driving used.

The Matter back again into the Mass of Blood.

Discutionts When the burning Heat of the Part decreases when to be and the Pain diminishes, the Skin being sufficiently ating used. Resolvents and Discutients may be proposed to strengthen the Part, and restore it to its natural form.

Tone, which otherwise for want of Discutients by the strength of the part of the p often become OEdemators; for the Fibres the g the Parts being distended beyond their Tone iscic by the peccant Matter heaped up in them, los

their Power of Contraction, and so give wa

thap. III. Of an Erysipelas.

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or superfluous Humours to lodge in them, which ould otherwise pass off through the Pores by Tranbiration; besides, the morbifick Matter which had in fo long in the Parts, the thinnest Part of it traniring, might be rendered too gross to pass through he excretory Vessels or Pores; but its Parts being vided and separated, by the Interposition of the platile Parts, and subtle Effluvia of Discutients, nd diluted by fresh Serum from the Blood, is not nly render'd thin enough to pass off by Transpiraon; but the Fibres more easily disposed to contract their due Tone of Constriction. roper to strengthen the relaxed Parts, and to difis this Matter, may be made with Summitat. Abnth. Flor. Cham. Sambucin. Rof. rubr. &c. in Wine, ith an Addition of Brandy; or the following Emlaster may be made use of. R. farin. fabar. Orobi. a ziv. sem. fænugr. zi. flor. sambuc. rosar. aa. zi. ss. en Julver. & coq. in hydromel, ad consump. humiditatis, ent einde add. ol. anethi & cham. q. s. f. Emp.

If an Erysipelas tend to Induration, the Matter To prevent o eing disposed to harden by its long Continuance, and the Evaporation of its thinner Parts, Medicines si re proper, which mollify and discuss more powerof ully; as R Rad. Althee & Lil. aa. 3i. ss. sem. lini hel enugr. aa. 3ij. coq. in Brodio Cap. Vervesin. & ex-gu rahatur mucilag. cui add. ol. ex pedibus bovin. pinving ued. gallin. ol. amygd. dulc. ãa. žij. adip. agnin. & itulin. aa. Zi. ss. medullæ Zij. Lytharg. Aur. Ziv. afe Ceræ q. f. f. Cerot. by whose volatile Parts the indunti rating Matter is gently dissolved, and the only Muope ilage stopping the Pores of the Skin, the thinner ura Ferum is prevented from flowing off too fast, which nts by that means helps the better to soften and dilute the gross Matter, which might otherwise grow more iscid and indurate.

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CHAP. IV.

Of a Furuncle, or Boil.

Description.



Furuncle is a painful Tubercle in the external Parts, about the Bigness a Pigeon's Egg, rising from a brown Basis into a Cone, attended with Tension, Pulsation, and Instammation.

Canfe.

As to its Cause it proceeds from Blood mixe with a tough viscid Phlegm, which being too this and gross to pass through the small Vessels, cause an Obstruction, and consequently a Tumour. The Tension is occasioned, either by the violent Distersion of the Vessels, or the Grossness of the Humon How Tumour occasions Pulsation, Instammatic and Pain, hath been sufficiently accounted for in the Chapter of Tumours in General.

Difference.

These kind of Tumours differ, either according to their Bigness, or Deepness in the Parts; or a they are more benign or malign. A Furuncle differ from a Carbuncle, by its Tendency to Suppuration being occasioned by a Humour less malignant as subject to Corruption.

Disgno-

As to its Diagnosticks, in the Beginning it is round, hard and inflamed, its Hardness proceeding from the Grossness of the Humour; as it is creases it rises into a Cone, and sometimes a Push being then more inflamed and painful, especially the State, which is about the eighth or nint Day; if it be malignant, it is of a black dusky Colour, attended with a symptomatick Fever occasioned by the Violence of the Pain and Inflammation which disordering the Spirits, quickens their Motion, and consequently the Circulation and severil

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disposition; for the quicker the Blood circulates, he hotter it grows, the Reason of which I have sewhere explained in a small Tract of the Reason the Heat of the Blood. When the Tumour is alignant, it hath other ill Symptoms besides the ever, issuing forth a thin corrupt Sanies, and if at Progno-I, digefts with much Difficulty.

These Tumours are without Danger, and frequentdigest and break without Assistance, but when they appen about the Tendons or Nerves, they are very The Meainful, as also in the Nose or Ears.

As to the Cure; a regular Diet and Evacuation Cure. re necessary; but since the Humour is too gross and scid; so as to occasion at once a total Obstruction ey refuse to yield to Repellents or Discutients, nd are only to be treated with fuch Applications shelp them to suppurate, such as Rad. & Fol. Albee, malv. Rad. Lil. uvæ passæ, ficus, &c. or such Summs as by their warm and penetrating Parts pronote Digestion, as Gum. Galb. Ammoniac. &c. or he following Compounds, Emp. Diachyl. cum Gum. Melilot. de Mucilagin. &c. If the Pain and Inammation be very great, the following Cataplasin nay be applyed, R. Mucilag. sem. Psyllii, Althee lini ā ži. B. farin. hord. žii. ol. Lil. axung. Gallin. ži. Buyr. resent. 3fs. Croci Ai. cum vitell. ovi, f. Cataplasm. The Tumour being open, deterge with mundif. ex Apio.

In these Tumours the Matter is so thick, that hey break of themselves before it is wholly attenuaed and dissolved into the Form of Pus, leaving a ough viscid Core in the Middle.

· CHAP. V.

Of Epinyclis and Terminthus.



Description. Hey are painful Puftles affecting the Skin in the Arms, Hands, and Thighs.

Epinyctic is a small Puffle of dusky Red, and of a pale livi Colour, with great Inflammation and

Pain; it first discharges a Sanies, and then a blood Terminthus is of a blackish Colour; breaks and gleets, and comes away in a Slough, a Day or two.

The Caule.

They proceed from a very hot biting Humour mixed with Phlegm, which occasion an Obstruction in the Superficies of the Skin, where the sharp H mour corroding the nervous Papille, causes the violent Pain and Inflammation; the latter is mor virulent, which occasions the whole to come awayi a Slough.

The Cure.

In the Cure, the same Rules are to be observe as in a Phlegmon, in respect of Bleeding, Purging As for external Applications, lenier and Diet. Anodynes are proper to abate the Inflammation and Pain, as fol. cicute, Solan. Plantag. &c. Whe broke, they are to be digested with Lenients, Bafil. cum ol. Rofar. and then healed with Unguen Tutiæ, or the like.

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CHAP. VI.

f the Inflammatory Tumours of the Glands, Viz. Phyma, Phygethlon, Bubo, and Parotis.



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Phyma is a Tumour with Inflamma- The Defert tion of the conglobate Glands about prion.
the Jaws; by which it is distinguished from a Ranula, which is about the internal; and Parotis, which is of the external falival

lands; but the same Name is given to Tumours out the Anus, from their Similitude to glanduus Tumours.

They are caused by the Groffness of that Humour The Cause. nat is seperated by those Glands, which stagnating nd obstructing the Vessels, tends to Suppuration. Vhen the Humour begins to suppurate, it frets nd destroys the Continuity of those Blood Vessels hat depose it, so that at the last it is not only forrve ned of a Phlegmatick Serum, but acquires a Mixare of Blood; the Parts about the Tumour being ressed upon by its Extension, occasion Pain and Inammation.

The Tumour according to the Figure of the The Diaflands, is round and hard, attended with Tension, gnosticks. ulfation and Inflammation; especially in time of uppuration, which happens sooner than in Phlegnons.

They differ from Strume, the latter being incy- The Diffeted, and to be eradicated by Escharoticks; where-rence, and s these, after the Discharge of the Matter, are to Prognoe cured by the common intentionts of Digestion, sticks. Petersion, &c. They are neither dangerous nor ifficult to cure.

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The Cure.

In the Cure they admit not of Repellents, he being impossible to force those Humours back into the Blood Vessels, when once discharged out of them into the proper Vessels of the Glands. If they yield not to Discutients, as Emp. de Ranis cun Mercurio, then Suppuration, which they commonly terminate in, is to be promoted with proper Applications, as Diachyl. cum Gummi de Melil. On or if the Tumour be painful, emollient Cataplasm made of Rad. Althae lil. sem. lini, Psyllii, Soc. at convenient. When the Tumour is suppurated, it is to be cured by the common Intentions.

Description.

Phygethlon is a glandulous Tumour under the Jaws, call'd Panus: It is round and flat, and hath a Mixture of Choler, as Phyma had of Phlegm, being of a yellowish red Colour.

Cure.

The fame Method is to be taken in the Cure as in a Phyma, viz. Emollient Cataplasms, or other proper Suppuratives.

Definition.

A Bubo is a Tumour of the Glands in the Groin or Arm-Pit with Inflammation.

Difference.

It differs according to the Nature of the Humour, being either benign or malignant, venereal or pellilential; critical or fymptomatical.

The Cause either internal, As to the Cause, it is either internal or external If the Tumour be benign, it is occasioned by the Grossness of the Humour separated from the Blood, which not being sine and thin enough to pass through the proper Vessels of the Gland, cause an Obstruction, and form a Tumour by too much distending the Vessels. If the Tumour be malignant, the Humour is not only too gross and thick to circulate, but contains likewise virulent corrosive Parts; which when the Humour once loses its due circulating Motion, presently separate themselves from the rest of the Mass, and not only desired

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roy its Texture, but corrode and fret in pieces Veffels themselves; so that, whereas in a benign mour, the Matter is gradually, and by Degrees, weht into the Form of Pus, by regular Digesti-; in these malignant Tumours, it tends to cort and putrify; the virulent corrosive Parts viotly and more minutely fretting and dissolving the Ap and more minutely in turn of that Humour.

But fometimes a Bubo

Cause, as Pain in the ext

But sometimes a Bubo proceeds from an exter-or external. Cause, as Pain in the external Parts; so a Wound the Hand, Arm or Finger, will occasion a Tuer in the Arm-pit; and an Ulcer or Wound in Foot, a Tumour in the Groin; in this Case, the Humour separated by the Gland, may be n enough to pass through the Vessels, without assoning a Tumour by its Groffness; yet Pain oconing a greater Flux of Humours to the Part; y are separated faster than the excretory Vessels the Gland can discharge them, and consently the Veffels in the Gland will be crouand tumified; or the excretory Veffels may y be pressed upon, and obstructed by the Fibres the Parts they are to discharge themselves into, Fibres of that Part being contracted and conour niged by Pain, so that the Humour may be heaped in the Gland for want of free Discharge, though were separated from the arterial Blood, no faster n Nature could otherwise vent it. But these d of fymptomatick Tumours gradually decline, those Accidents that occasioned them are reugh ved.

The Signs of a Bubo are, Tumour of the Glands The Diathe Groin or Armpits, with Pain, Inflammation gnosticks. the Groin of Armpits, with Early Indianal Hardness; if a Fever preceded, they are critical is, if they proceed from, and depend upon Accidents, those Accidents are evident. If they proceed in an internal Cause otherwise, the Symptoms rate with Nature of the antecedent Cause.

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The Prognosticks.

If a Bubo be benign, it is not dangerous, exce for want of due Care, and opening in time, the grow fiftulous. If they depend upon a Translating of Matter, the Cure is difficult; if the Matter crude; and the natural Heat much weakened. If a Tumour above, the Lungs; or below, the Uter Bladder, or Rectum, are affected with it, it is mo

dangerous.

In the Cure of a Bubo, the Part affected is only to be considered, but also the Nature of Caufe. Since then the Humour that produces Tumour is separated from the arterial Blood, contained in the proper Vessels of the Gland, thell of Repellents are to be avoided. Mr. Wiseman deed fays, they ought not to be repelled; but in the Humour is separated from the arterial Blo and contained in other Vessels, as I said before of Phyma, and it is impossible to force the Hum back into the Blood Vessels; therefore in all I mours of the Glands, Repellents must be useless, confequently to be avoided; for fince the Huma will not admit of Repulsion, they must rather prejudicial, in condensing and fixing the Humour the Part.

Since then the Humour admits not of Repulli it is either to be discussed or inclined to Suppurati in order to its Discharge. But since according the Account we have given, in the Chapter of mours in General, of the Nature, and Manne Discussion, we suppose it to be performed by Influence of the subtle Effluvia of Discutients, viding and separating the Parts of the Humour, thereby attenuating it, and rendering it fluid enou to pass freely again through its proper Vessels; I fince according to this Account, we suppose Humour discussed to return again into the Mass Blood, there may arise a Question, why the mour may with more Safety be returned back!

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ne Mass of Blood, by Discutients, than if it were rced back by Repellents; and fince, if it might be nproper to repel it, why it may not be as improper discuss it, as long as it must pass again through s proper Vessels, and consequently be mixed again ith the Mass of Blood. To answer this Difficul-,we may consider, that when Humours are repelled, ey are forced out of the Part, by the contracting ualities of Repellents in the same Condition and tate that they were brought in, it not being in the ature of Repellents to attenuate and rarify the arts of that Humour; and consequently it is liable be discharged again upon some other Part, if not ly discharged by Evacuation; but when a Huour is rarifyed and attenuated, by the volatile and btle Effluvia of Discutients, and restor'd to its naral State of Fluidity, it acquires its natural Cra-, and becomes altogether homogeneous; fo that en it may safely be returned into the Mass of lood, the Humour losing its deprayed and viciis Qualities. If the Tumour yield not to Discuents, then Suppuration is to be hastened and prooted by proper Applications, of which enough ready in the preceding Chapters.

If the Tumour be critical, and the Crisis be im-the Tumour riect, the Encrease of it is to be promoted by en-to be prouraging the Distension of the Vessels, and giving more d, em Liberty to swell, by guarding the Parts from external Pressure of the Atmosphere, by the Apication of Cupping-Glasses. The Essects produced the Application of Cupping-Glasses, is commonly id to be by Attraction. But to give a more reasonable count of their manner of working, we are to consist, that as our Bodies are contained in a Medium Air, or Atmosphere, whose Extent from the perficies of the Earth, is a considerable Height; d consequently makes a great Pressure upon what-

er lyes under it, so that a Pillar of Air of any

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fixed Diameter, is able to raise Mercury in a cylin drical Tube, a considerable Height; now when ou Bodies are equally on all fides compressed with the incumbent and circumambient Preffure of the A mosphere, as statical Observations prove it to be every Part being equally pressed, the Humours with in circulating through the Vessels, have equal Pow er to distend them as they are impelled by the Ford of Circulation; but when by the Application of Cupping-Glass, the Pressure of the Atmosphere kept off any Part, the Force of arterial Pulfation hath more Power to distend the Vessels in that where there is no external Pressure, and consequent the Vessels are inclined to tumify; besides the dire Preffure of the Atmosphere is not only taken of but the collateral Pressure on each side, forces the Skin and Humours contained in its Veffels lateral into the Glass; the Air which might oppose itsle trusion being either driven out by Fire, or exhaust by Suction. If any one should ask what makes the Glass adhere so closely to the Part? If the Part were thus internally and laterally forc'd against i it is eafily answered, that that Pressure of the A mosphere which is kept off the Part by the Gla presses against the Glass, and so keeps it firm a fast, But those who would understand the static Reasons more fully, may consult the Experimen made by the Honourable Mr. Boyle to prove the fects of the Fressure of the Atmosphere. What I had more faid may be sufficient to shew the Manner of the But Effects of Cupping-Glaffes.

But to proceed to the promoting of critical I g are shods promours, Cupping-Glasses are not only convenient, be antimote critical I g are shods promours, Cupping-Glasses are not only convenient, be antimote critical I g are shods promours, Cupping-Glasses are not only convenient, be antimote critical I g are shods promours, and so the flammation, cause the Humours in the Vessels to fexpand themselves, which distending the Vessels ins, give way to the Influx of more Humour, and so the crease the Tumour. Medicines convenient for the pura-

pose are Sterc. Columbin. sem. sinap. Urtica, Fri-&c. Emp. Diachyl cum Gum. Pix Burgundia, ban. colat. per se, &c. or R cepam magnam, exatur & impleatur cavitas Theriaca, deinde papyro oluta coq. sub cineribus calid. & cum ol. Scorp. f. Calasm. addendo ferment. Acer. 3ss. M. or R Emp. achyl. cum Gum. 3ij. Picis Burgund. Ammoniac. foaa 318. pulv. rad. Aristoloch. Gent. aa. 3]. cum ol. rp. f. Cerot.

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These Medicines are proper to promote critical tives somemours and their Supputation; but it frequently times difsout, that the same Medicines which are designed Suppurate, happen to discuss the Tumour; and the contrary, those Medicines that are proposed discuss, tend to Suppuration; the Reason of which ends upon the Condition of the Humour to be purated or discussed; for since both Discutients Suppuratives contain volatile warm Particles; ich transmit their subtle Effluvia; if the Huur be not stagnated, the Humour being but tly, and not totally coagulated, fo that the Ciration is not wholly obstructed, then Suppuratives; their warm Parts, have the Effect of Discutients; der Circulation altogether, then the volatile Parts when the Humour is firmly fixed in the Part as to Discutients, not being able to attenuate that Matwhich hath wholly lost its Crass, by a perfect Stagion, only affift the volatile Parts inherent in the I have mour, to promote Digestion and Suppuration. of the But to proceed, if a Bubo be symptomatical, and mour, to promote Digestion and Suppuration.

Body plethorick, as it generally happens, Bleeg and Purging will be requisite to carry off the antity, and correct the Qualities of the Cacochy-and which by preventing a constant and great In-field tof Humours upon the Part, will abate ill Symreselections, and give the Humour contained in the Gland foure time to go quietly off by Discussion, or to

or the purate with milder Symptoms.

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If the Tumour proceeded from the Fain of an other Part, that Pain is to be relieved by Lenient and the Humour in the Glands to be dispersed the Help of Discutients, which may be affished the Help of Astringents; for though Astringen are improper, when the Humour is groß, fince Re pulsion is impossible; yet when the Humour is att nuated by Discutients, they, by contracting the R bres of the Parts, may affift to press the attenuate Humour out of the proper Veffels of the Gland into their excretory Vessels. If the Humour ten to Suppuration, it is to be promoted with prop Medicines, and the Tumour after opened, to bed gested, deterged, incarned, and cicatrized, according dingly.

D Arotis is a Tumour of the Glands behind, or Description. bout the Ears, attended with violent Pain a Inflammation.

The Cause of this, as of all other Tumours T : Caufe. the Glands, is the Grossness of the Humour sepan ted, which being too thick to pass through the Ve fels freely, cause an Obstruction, and at last a tot Stagnation. When once the Humour begins to fu purate, it frets the Extremities of the Blood Velle from whence it is separated, and then the extraval ted Blood contributing to the Increase of Tumo likewife, exasperates the Pain and Inflammation Sometimes it is occasioned by an external Cause viz. a Bruise, or Wound.

Difference.

Disgno-

flicks.

They differ according to the Nature of the H mour, it being Phlegmatick, Cholerick, or mix with Melancholy; as also, being critical or sympto matical, proceeding from an internal Caufe, or of casioned by an external Accident.

The Signs of a Parotis are, a Tumour of the P rotid Glands, attended with Pain and Inflammation If malignant, it is attended with a Fever. Whether tt

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be fymptomatical or critical, or proceeded from external Caufe, will appear from what preceded. As to the Prognosticks, a Parotis without a Fe- Prognor, is more benign, than when a Fever accompa-flicks. nies it. They are likewise less dangerous, that low flow Fever, than those that happen after ute. Those which are critical, are wholsome, d easily cured; but those that succeed great Evaations, or Fevers, are more dangerous. Those at are symptomatical, and proceed from vicious umours, are difficult to cure, and dangerous. In the Cure, if the Tumour be critical, it will The Cure. proper to mitigate the Pain with Lenients, and omote Suppuration. Repellents in these Tumours to be forborn, because by constringing the Parts, may hinder the Part from receiving the peccant umour, and from discharging it self out of the as of Blood. If the Inflammation and Tumour very great, Evacuation is not only to be made by cision, but also by purging Medicines; and the tient is to be kept to a moderate and convenient et; embrocating the Part with ol. Cham. Lumbrir. lim, &c. If the Tumour rise not kindly, it be crude and viscid, and Induration be suspected, ong Emollients and Discutients are to be applied; t if it tend to Suppuration, the following may be ade use of. R rad. lil. expar. sub cineribus coct. . Ziv. Muc. sem. lini. 3j. S. farin. Trit. 3ij. Unguent. afil. axung. percin. aa. 3j. B. vitel. ovor. No. ij. Cro-Di. f. Cataplasm. The Matter digested, and the mour opened, digeft, deterge, &c. as in other

CHAP.

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CHAP. VII.

Of a Carbuncle.

Description,



Carbuncle is a round hard Tumou much like a Boil, of a dark red 0 lour, attended with the highest D gree of Pain and Inflammation, wi feveral Vlcuscula round it, corrupti the Part it affects, fo that the wh

Piece comes away, if the Patient recovers.

The Caufe.

It is occasioned by a Humour so much deprare as to acquire the Virulency of a Caustick, which once destroys both the Texture of the Human laid down in the Part it affects, and even to Parts themselves, corrupting the whole, and but ing them like a Caustick. It is commonly a Sm ptom of pestilential Diseases, but happens for times, the Humours being corrupted to that Deg of Virulency, where there is no Appearance of Plague; fo that in respect of the antecedent Can it is either pestilential or not pestilential.

The Diagnostuks.

The Symptoms or Diagnosticks of a Carbun are, Nausea, Vomiting, Dejection of Appet Tremor, Palpitation of the Heart, frequent Swo ing, Delirium, &c. If the Tumour be pestilent the Symptoms are more violent than otherwife, fides, the Disease being Epidemical, shews the in ctious ill Disposition of the Air.

The Prognosticks.

The larger the Carbuncle, the more dangero and likewise the more it degenerates from Red Black, the worse. Those that are in the Emund ries, or near fome noble Part, are more danger than those which happen in the musculous Flet but the greatest Danger is when the Humour is turned back into the Blood again.

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In the Cure of a Carbuncle, two things are to The Intenticonsider'd, First, the Nature of the antecedent ons of Care.

aufe, Secondly, the Nature of the Conjunct.

As to the antecedent Cause, it is evident from The antecele Nature of the Symptoms, that the Blood must dent Cause very much depraved in its Crasis and full of Caco-considered. ymia; fo that when the Blood is by any Accident it into Diforder, and begins to ferment more than dinary, the very hot and corrofive Parts make the ermentation so acute and violent, that they at once froy the Texture of the whole Mass, separating he thick and gross Faces of the whole, from the inner and more corrolive fermenting Parts, fo that lature is put upon an immediate Crisis, otherwise he whole Mass of Humours being thus separated, and he Mixture of the different Parts dissolved, there ould follow a univerfal Coagulum of the whole, were of the groffer and virulent Parts discharged upon me particular Part, which form the Tumour called Carbuncle.

The Parts of the whole Mass of Humours being The symhus distinited, and the natural Texture of the proms achole broke, there not only enfues a want of Appe-counted for. te, the Ferment of the Stomach being also deraved; but the Crass of the perverted Humours ause an irregular Fermentation and Tremor all ver the Body: The Blood being thus difordeed, affords but a very ill disposed Pabulum to apport the animal Spirits, which being thus likevise deprayed, and also affected with the irregular ferment of the Blood, occasion a Deliquium, or wooning. Their Motion likewise through the Verves being irregular and weak, the Contraction of he Fibres of the Heart, become likewise irregular nd faint, which causes a Palpitation; and the stomach not only affected by the Consent of the is Nerves, but also by the depraved Humour discharged nto it, becomes subject to Nausea and Vomiting,

Part 1

the great Disorder and Confusion of the Spirits, and the Inflammation of the Blood in the cortical Par of the Brain producing also a Delirium.

From what hath been faid, it appearing how by Biceding. great a Diforder the Virulency of the Humour hat put Nature into; it is absolutely necessary, to make Evacuation and Discharge proportionable to the Urgency of the Symptoms; and first by Venesection which is to be taken in such Quantities as the Strength of Nature will bear, even to Fainting; which Discharge the Vessels being sufficiently en ptied, there is convenient Room for other Liquors attenuate and temperate the violent Heat, and dull the Edges of the Particles of that virulent and monious Humour. The Virulency of the Humou is not only to be checked by Venefection, but len ent Purging, as Caffia, Manna, &c. and the Bot to be kept open by Clysters; and these as wella Bleeding are to be made use of in the Beginning, le by the Abundance of virulent Humours, the Crai of the Humours should be wholly destroyed.

In pestilential Cases, where the infectious Quali ties of the Air concur with the predisposed Ho mours, Bleeding is not to be altogether fo plentife as when on the Depravity of the Humours caus the Disease, lest the Weakness of the Spirits a casion them to give way more easily to the Malignan

cy of the Distemper.

A Caution.

Lenient

Purging

necessary.

But besides Bleeding, Purging and Clysters, will be requifite to make use of Alexipharmicks resist the ill Essects of this malignant Humour; Theriaca Methridat. Elect. de Ovo, Confect. de Hy einth. de Alkermes, &c. by which the Spirits wil be supported, and the Mixture of the Blood reco vered, and its Texture preferved, fuch warm Mediandr cines keeping the Blood warm and fluid, and preal, o To moderate the extraordinary violent Heat, the sch follow.

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following Medicines may be made use of. Be Conf. Borag. Buglof. Lujulæ aa Zi. spec. de Hyacinth. 3i. Cort. Citr. Cond. N. Mosch. aa 3iij. cum q. s. Syr. è succo Citri, f. Elect. taking a finall Quantity every four Hours, drinking some of the following Julep after R Aq. Scord. Dracont. citri aa Bij. Theriacal. t. ij. spec. de Hyacinth. 3j. Syr. & Citri q. s. Julep.

In respect of the Tumour, and its conjunct Cause, What is to we are to consider, that the Distemper, being very be done in cute, and the Crisis speedy, the grosser Parts of the respect of Humours separated from the rest, are presently Cause. hrown into some Part, where they cause an immediate Obstruction and Tumour; and since they cannot be thrown into any Part, without this virulent Humour with which they are impregnated, they presently putrify and corrupt the Part. But if the Sumour increase not fast enough, to free the Blood s much as possible of this depraved Humour, it nay be encouraged by the following Cataplasm. & fummit. Rut. M. ij. ferment acr. Ziij. fic. veter. No. iij. piperis alb. 3ij. sal. Commun. 3iij. M. or the Caaplasm mentioned in the Chapter of a Bubo, of beriaca coct. in cap. excavata; or it may be pronoted by the Use of Cupping-Glasses. If Nature e very strong, and the Tumour rise with violent leat and Pain, it may be tempered with cooling Cataplasms made of fol. Plantag. pan. tritici decoted in Wine, which hath been mentioned elfethere.

If the above mentioned Method prove ineffectual ; a cis reasonable to vent the Humous with Theriaca Hype cations, washing the Scarifications with Theriaca will and mel. Ægypt. in acet. vini, then fill the Scarification will be scarification. indronis, or Polydie, and apply a Cataplasm over l, of farin. Orob. &c. or the malignant Humour ngit day be confumed by actual Cautery, separating the the schar by convenient Digestives.

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Of a Paronychia. Part]

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If the Tumour disappear, and the Humour mig again with the Mass of Blood, it soon corrupts the whole Mass, and proves fatal.

CHAP. VIII.

Of a Paronychia.

Definition.

Differences.

Paronychia is a Tumour about the Nails or Ends of the Fingers, commonly call'd a Whitlow.

It differs, as it is benign or malig nant, the former lying under the Skin, and quickly coming to Supply

ration; or as malignant, when it lyes deep in the Flesh, and is difficult of Digestion. It differs all according to the Temper of the Humour that occafions it.

The Caufe.

As to the Cause, the benign proceed from a Sal or cholerick Serum collected under the Skin, being too thick to perspire through the Pores of the Cut cula, which is thick in the Fingers. If it be me lignant, it commonly proceeds from a gross Phlegm which is very flow and hard to digeft, lying deep an frequently collected betwixt the Bone and Perio steum.

Diagno-Sticks.

The Signs of a Paronychia are great Pain and In flammation, with Pulfation and Tension; and who it is malignant, the Pain is greater, attended with a Fever and Fainting.

As to the Prognosticks, the benign are easily of red, the greatest Danger being the Loss of a Nall but the malignant, if not timely remedy'd, corrup the Periosteum, and the Bone, and by Degrees et

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rend their Symptoms to the next Joint, and the whole Hand.

In the Cure, Lenients, and emollient Suppura-The Cure. tives are convenient, as fol. Malv. Hyosciam. Rad. Althor, sem. psylli, lini, fanugrac. &c. but Care must be taken to discharge the Matter in due time, by Incision, lest by waiting for Suppuration, the Humour corrupt the Periosteum, and foul the Bone. When the Incision is made, the following Cataplasm may be applied. Re sem. Lini senugrac. aa. 3ss. muc. sem. Psyllii 3j. vitell. ovi No. i. Croc. 3j. ping. Gallin. aut butyr. rec. q. s. f. Cataplasma. Or it may be dressed with Basil. If it be full of tough Phlegm, or spungy Flesh, it may be deterged with pracip. rubr. laying a Pledgit over it, spread with Basil. and Emp. Diachalciteos over all, with proper Bandage, to keep the Part in its due Shape.

CHAP. IX.

Of a Pterygeon.

Terygeon is an Excrescence of Flesh about Description, the Nails of the Fingers or Toes. It and Cause. often happens after a Whitlow; or is caused by a Bruise under or about the Nails; sometimes it rises from the

Root of the Nail, some Pustle there having preceded: When the Flesh under a Nail is bruised, it causes Pain and Inslammation, which is succeeded by an Eruption of Matter, and afterwards an Excrescence of spongy Flesh.

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Differences. They differ as the Cause varies, and according to the Part affected, rising either from the Sides or the Roots of the Nail, with Erosion, or under the Nail.

Diagnoflicks.

The Signs are Evident, by the Ulceration and Excrescence; and if the Bone be putrified, it is endent by the Smell.

Progno-

When they rise from under the Nail, they are easily cured; but when they rise from the Root of the Nail, they are more difficult, and in old People

are apt to gangrene.

The Cure.

In the Cure of a simple Ulceration with Excretence, the Nail is sirst to be cut away, that Modicines may be applied to consume the loose Flesh, and cicatrize it. To which Purpose, dry Lint, or Lint dipt in aq. calcis, and dryed, or Pulv. grant tor. Terra sigillata, Lapis Tutice, or pracip. ruln. But moist and greasy things are to be avoided since they rot the Nails. If the Excrescence risk from the Root of the Nails, more powerful Dryers are to be made use of; as As ustum, Squamma Ceris, Calx viva, Troch. Polydea, Andronis, Musa. The Vitriol Stone, or Altum, will serve to cicatrize.



CHAR

Of Pernio.

Ernio is a thick red Swelling in Descriptions the Hands and Feet, with itching Pain. In the Hands they are called Chilblanes, in the Feet, Kibes.

The Canfe is external Cold, which Canfe.

flopping Transpiration, and penetraing deeper, condenses the Humours in the Skin,
which occasions painful Swellings; and the Humour, for want of Transpiration, stopp'd betwixt
he Cutis and Cuticula, separates them, and cauth Blisters, and by Degrees growing hot and sharp,
borrode the Skin, and sometimes the Parts under it.
Is for the internal Cause, the Humour is naturally
to thick, and the Parts tender, which disposes
hem to be thus affected with external Cold.

They are known, by their thick red Colour, at-Diagnonded with feveral small Wheals, which itch much, flicks. and when rubbed, ulcerate, and chop the Skin, issu-

ng out a thin Humour.

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ris,

Chilblanes are not dangerous, though difficult The Cure. o cure in cold Weather; but Kibes, often, if nelected, ulcerate the Parts beneath, and sometimes he Flesh to the Bone, and are apt to gangrene.

In order to the Cure, the Parts are to be kept Prognory and warm, to promote Transpiration; Socks sticks.
ipp'd in Brandy are convenient, also Cloaths dipp'd
I Salt Water are sometimes beneficial; Sp. Salis
est. hath been often sound effectual. Fomentations
fresh Water, or Broths, promote Transpiration,
specially those made with warm Herbs; as Wormsood, Marjoram, Thyme, Hyssop, Rue, Rosmastranspiration, Rosat, cum Terebinth. in a roasted
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Turnip is good, or R. Manne, Thuris, aa. 31. Con. Pini, Zij. axung. Porcin. & Anfer. aa Ziij. ceræ q. f. Cerotum. If the Ulceration be large, it is cured in as an Ulcer with Fluxion.

CHAP. XI.

Of a Varix.

Description.



Varix is a Dilatation of a Vein which commonly happens in the Thighs and Legs; in the Testick and hemorrhoidal Veins; and it Women the Belly is frequently a fected.

Caufe.

mours.

As for the Caufes, the Fault is either in the Ho mours, or the Veffels that contain them or both The Faul; the Humours are the Cause, when by their Gros of the Hu- ness they are subject to coagulate, and have not fre Paffage through the Veffels; when the Blood is con gulated and stopp'd in the Vessels, it presently distend them, and the clotted Blood thus fettled in the Part gradually encreases by the Adhesion of fresh Particle of Blood, which being denyed a free Passage likewis through the Veffels, are by that Means disposed to coagulate, and adhering to the first coagulated Mass add to its Bulk: As the Matter coagulated increases of feth in Bulk, it also enlargeth its Sinus, the Vessel g C still distending and yielding to the Pressure of the Home apper mours forced on by the Circulation of the Blood less which constantly endeavours to make its way be e bar twixt the Coagulum and the sides of the distended price of Veffels.

The

The Vessels are the Occasion of it, when their The Fault bres are relaxed and weaken'd, so that the Vessel of the Vested hing lost its natural Constriction, easily gives way fels. and is distended by the Pressure of the Humours, which is the greater when the Veins are weaken'd. mich ought to support the Weight of the ascen-Blood, in which case the distended Vessel forms aricofe Sinus, which continues full of Blood, tho' first neither coagulated, nor perhaps disposed to agulation, but losing the free Motion it hath in ther Parts, at last the Parts of that Blood, for ant of their usual Agitation, adhere to one anomer, and form a Coagulum; and this happens com-

monly in cutaneous Parts, where the Veffels are not ported by the contiguous and adjacent Veffels. t fometimes the Vessels are not only in Fault, t the Groffness of the Humours likewise concur. When a Varix is occasioned by the Grossness of How Acci-

Humours chiefly, it happens either by preterna-dents or al Accidents, or natural Causes. By preternatu-natural Accidents, when the Blood becomes too gross by Causes con-Fault of Indigestion and Crapula; or when the Production fre ood is chilled and coagulated by external Cold. of a Varix. natural Causes, when by a Separation of Milk the Breast, or nutritious Juice for the fætus in the omb; the Blood becomes thick, the Vehicle it s diluted with being feparated, in which Cafes

e Veffels are observed to be seven times bigger than turally.

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Mhen the Tumour happens through the Weak-res is of the Vessels chiefly, there are several concureffelling Causes, according to the Difference of which, Ho appears, that the Weakness of the Part is more less concerned. As if a Varix happen, only by be be bare Weight and Pressure of the Blood, and the nide orce of Circulation, the Part must be very weak give way to the Humour. But when a Vessel is es'd upon either by Tumour, or any contiguous

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external Body, as in Riding, the Veins on the lift fide of the Thigh; or in Women with Child, the fliack Branches; or when a Vessel happens to he streightened by any particular Posture, there is consequently a greater Weight upon the Part that give way to the Tumour, the Resux of the Blood bein stopp'd in some Measure, and Circulation more of structed.

The Disgnosticks. The Signs of these Tumours are known by the Turgency of the Veins, being crooked, and of a azure Colour, which are more apparent, the most superficial the Veins are. The Signs of a Henvaricosa, are knotted Tumours in the Veins leading to the Testicles.

The Pro-

Varices in themselves are without Danger; he if they be large, and the coagulated Blood should happen to swim into the Blood, by making Obsta ction in other Parts, it may occasion ill Symptom as Madness, an Apoplexy, Pleurisy, Pain in the Kidneys, &c. These kind of Tumours are all has to cure.

The Cure.

A Varix being healthful, ought not to be cur unless it be large and painful, and ulcerated a bleed; but when the Cure is to be endeavoure Purging and Bleeding are to be repeated; a likewise such Medicines are to be made use of, may cleanse the Blood, and strengthen the Part externally applying aftringent drying Medicines contract the Parts, and strengthen their Tone, will convenient Bandage, which may gently compre the Parts, and squeeze the Blood into the Vell gradually again. But if the Blood be coagulate and will not yield to fuch Measures, then Incid is to be made, and the Veffel laid bare, and a l gature being pass'd above, and another below the Tumout, the Vein is to be opened, and the o gulated Blood cast out, digesting and healing Part, as in an Aneurisma. If a Varix happen in hap. XII. Of an Ecchymofis.

g or Thigh, it may be help'd with a lac'd Stocking Trowze, placing fomething that preffes hard beixt the Skin and it, upon the Tumour, as Velm, or Lead beaten thin. If they happen in the lly, a Bracer may be convenient. If the Tumour large, Bleeding and Purging will be requifite, plying Emplast. Cafaris, Ung. Tumach. or fuch e astringent Topicks to the Part. In a Hera varicofa, a Bag-Truss with the aforesaid Applitions will be proper. If the Tumour proceed om Wind, it is to be treated as a flatulent Tun our. How a Varix is to be treated when ulcered, will be shewn in the second Part of Ulcers.

CHAP. XII.

Of an Ecchymofis.

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N Ecchymosis is an Extravalation of Descriptions Blood in, or under the Skin, or any other Part, the Skin remaining whole.

As to the Cause, it happens com- The Causes monly by a Blow or Bruife, or Fall,

which some finall Vessel is broke, and the Blood travasated, or it may be occasioned by a Prick with Lancet or any other thing, the Skin healing and clogup again, whilst the Vessel under it remains open. The Signs of it are a black and blue Colour in the Dia e Skin with or without Tumour at the first; whe-gnosticks. er occasion'd by a Blow or otherwise, will be own by the preceding Accidents.

If the Contusion be superficial; the Danger is The Proall; but if under the Skin, still greater; yet so gnostickie uch the less; whilst the Blood is thin and fluid;

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but if the Blood coagulate and be separated from its Serum, it is difficult to dissolve, and hard n digeft. If the Bruise be large, and the Skin, in stead of black, blue, or green; be red, hard and painful, it is dangerous, and if neglected, ga grenes.

The Cure-

In the Cure, if the Effusion be small and super cial, a Stupe dipped in Oxycrate first applied, the Humour may afterwards be discussed by being in mented with Spirit of Wine. But if the Extrava fation be great, the Veffels are to be first emptied Bleeding, embrocating the Part afterwards with Astringents of. Rofar. myrt. cum aceto & alb. ovi, which is often to be renewed. If stronger Astringents are to be made use of, add pulv. bol. Armen. Sang. Dracon. fla rofar. rubr. baluft. myrt. gallar. &c. Thus by the

Bandage.

requisite.

and

Use of Repellents, the Parts are contracted, an less apt to receive the extravasating Humours. Bu Repellents will have a better Effect if affifted with convenient Bandage; for by Bandage the Parts at compressed and kept so close, that no extravasating Humour can be admitted betwixt the Vessels.

When the Fluxion is restrained, Discutients a when to be to be mixed with Repellents, as R Unguent. Arm weed.

gon. Ziij. ol. Eumbric. Cham. rut. aa Zj. Terebinth. pulv. sem. fenugræc. 5vj. flor. rof. rubr. badust, 3ij. Croci Dij. ceræ q. f. f. Cerot. or B. rad. brya figil. Solomonis aa Ziij. flor. Cham. fambuc. aa P. i. fari bord. fabar. sem. fenugræc. aa 3j. summit. Absint M. i. sem. Camini Bij coq. in vin. & f. Cataplasa addendo in fine Oxym. scillit. q. s. and foment the Part with Decoct. Abfinth. in Lixivio commun. bu Care must be taken, that neither the Cataplasa nor Fomentation be applyed too hot, lest by heating the Part, they swell the fanguiferous Vessels, an renew the Extravalation.

If the Extravasation will not be check'd by Re pellents and Discutients, the Blood is to be let of

y Incision, lest it corrupt the Parts under it, or the Bone; but if there be no fuch Danger, but the Tumour inflame, and tend to Suppuration, it is to be promoted, and then discharged by Incision, and the Fart digested, deterged, &c. If the Tumour end to Mortification, it is to be treated accordingy; but Care must be taken to leave off such Measures, when the Part hath acquired its natual Heat, lest too much Heat renew the Fluxion; ind a Gangrene enfue.

If the Body be bruised by a Fall, or otherwise, fter Bleeding the Body is to be kept warm, and 5j. of Sperm. Ceti, or Irifb Slate may be given upon t, or R Rhab toft. terræ sigillat. mumiæ aa p. aq. of which 3j. may be given in a convenient Vehicle, after which the bruised Humours may be breathed

out by discutient Ointments or Cerots.

CHAP. XIII.

Of an Aneurisma.

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N Aneurisma is a soft white Tumout, pescripion vielding to Preffure, but rifing again after Preffure, attended with Pulfation from the Artery.

The Cause of it is the Rupture of The Causes

an Artery, by which Blood is extraasated betwixt the Interstices of the Muscles, or bewixt the Muscles and the Skin. This Rupture is nade either by internal of external Causes. The internal Causes are first the violent Force of the Blood in the Arteries, which being driven by adventitious and y Resected Force above that of Nature, into some et of weak Vessel, produces a Rupture, it being by that Force

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Force drove in faster than it can be discharged, at in violent Contractions of the Thorax in Coughing or by the violent Contraction of several Muscles in forceable Motion, for the natural Force of Circu lation would never burst an Artery, if there were

not fome additional Impulse.

But sometimes it happens, that by the sharp and hot Parts of the Blood, the Veffels may be fo con roded and weakened, as easily to give way to a les violent Force, as in Bleeding at the Nose, which often happens even by hot fermenting Blood es panding and distending the Vessels. And if the Blood may thus easily break the capillary Arteries, much more may it be done by violent Coughing Vomiting, or other violent Strains. How the may encrease the Impetuosity of the Blood, may appear from what I have elsewhere said of the us of the Lungs, in a small Book of the Reason of the Heat of the Blood. But whether it be occafioned by the Force of the Blood, or Sharpness of Blood, and Weakness of Vessels, or all together yet there is always an evident Pullation in the To mour, except it lye very deep, partly occasioned by the Motion of the beating Artery, and partly by the additional Blood forc'd in, and added to the Tumour by every Pulfation.

The external Causes that may produce an Anex rism, are, whatever may divide the Coats of an Ar tery to cause an Extravalation; whether Puncture Incision, a Bruise or Fall, or the corroding Quali-

ties of Humours.

An Aneurism differs either as it is large, exten Differences. ding it felf all over a Part, or only to Part of it; or as it is superficial or deep; or more less protuberant, the Orifice of the Artery be ing bigger or less, so that the Blood is with more Force, and irregularly, or more leifurely extravasated. In the first, the Shape of the Tumou

Tumour is more irregular, in the latter, it answers

the Shape of the Part.

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When the Tumour is small and superficial, it Diagnomay be easily known by the evident Pulsation in eve-flicks. y Part of it. If it be large, and rife fuddenly, and white and foft from its first Appearance, though o evident Pulsation can be perceived, yet we may onclude it to be an Aneurism. Another Sign of n Aneurism is the frequent Increase and Decrease of it, the Blood being as often received into the Artery again, and forced out again as often. If it appen upon the Puncture of a Lancet, it appears ly the spurting out of the Blood, or a sudden Tupour with Pulsation. If the Skin be very much distended by the Largeness of the Tumour, it acuires a Redness with Inflammation; and if there le a Putrefaction of the Blood, it is commonly atn of Lended with a Fever and Fainting, the Spirits being out into a violent Agitation, and the Blood over ermented and heated with the violent Pain.

All Aneurisma's are difficult to cure; if large and Prognodeep in the Muscles, they are incurable; and if un- sticks. dvisedly opened, fatal; it being impossible to apply Medicines to the Part when so deep. But where Bandage and Medicines may be applied, they may e cured, or at least relieved to the Ease of the

Patient.

In the Cure of an Aneurisma we are to endea- The Cure. our to resist the Increase of it, and agglutinate the real vessels by proper Medicines and Bandage; Medidnes proper for that purpose are Boil. As men. Gang.

Dracon. Thus also, farin. volat Gypsum, and the uices Plantag. burs. Pastor. millefol. vinc. pervinc, isose of isose. Lamii, acet. & alb. ovor. but where Bandage cannot be applied, Emp. Cæsar. or the like, may be made use of. If near the Trachea, Compress hay be made with a Plate of Lead, or beaten Gold. If the Use of Astringents and Bandage are inessented. ines proper for that purpose are Bol. Armen. Sang.

ctual, Escharoticks or actual Cautery may be applied to destroy the extravasated Blood; but if the Artery lye where it may be come at, the best will be to make Deligation and divide it.

A Caution.

These Tumours are not to be opened till they break of themselves, and when they do, they are speedily to be restrained by proper Astringents and Bandage, the Life of the Patient otherwise being in Danger, by the great Efflux of Humours.

The Cure of an Aneu rilm from Puncture.

If an Aneurisin happen by Puncture in Letting Blood, permit it to bleed freely, which may empty the Vessels without the Trouble of opening a Vein in the other Arm; for when the Vessels are emptied fufficiently, the Pressure and Force of Humours, upon the bleeding Veffel, is less violent; and confequently the Vessel more easily agglutinated. A sufficient Quantity of Blood being discharged, the astringent Powders are to be applied to the Part, with restrictive Plasters over them, and Cloaths wrung out of Oxycrate to the Axilla and upper Part of the Arm, then with a double-headed Row. ler, take two or three Turns about the Part affected. and rowl up to the Shoulder, returning again to the Part, fastening the Rowler on the Outside; then with another Rowler expulsive Bandage is to be made, from the Hand upwards, placing the Arm in a convenient Posture; and prescribing Juleps, Emulsions and Opiates to allay the Inflammation and Heat of the Blood. If the Arm be much fwelled, a laced Stocking and Glove may be fervice able; but if this Method prove ineffectual, Deligation is necessary, which is to be done as followeth.

The Method First a Ligature is to be made three or four Finof making gers bredth above the Tumour, keeping a Gripe Deligatior. also upon the Part, then the Arm being held below, Incision is to be made the Length of the Tumour, and the clotted Blood to be cast out, cleansing the as t Part with a Sponge, then with a Needle, a Liga-

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ture is to be paffed under the Veffel above, and another below the Puncture; when the Ligature is tyed, it is to be cut off; but the better to discover the Vessel, in order to pass the Ligature, it may be convenient to flack the Gripe, upon which the Blood spurting out, will discover the Vessel. The Ligatures being cut away, and the Vessel divided, the Part may be dress'd up with a common Digestive of Terebinth. lipp'd in pulv. Galeni, and a Plaster of Diachalcit. malaxed with ol. Rof. over it, with convenient Bandage, giving the Patient Anodynes internally, to keep the Blood quiet, and to abate its irregular Fermentation. The Part dress'd up thus is not to be ppened till the third Day, lest the Parts should bleed again; when it is to be dress'd with Digeflives, which are to be continued as long as it is convenient; and then the Wound is to be deterged, incarned and cicatrized.

CHAP. XIV.

Of an Herpes.

Erpes is so called, a serpendo, from its creeping and spreading Quality.

There are three Sorts of it, which Three forts take their Difference from the Tem- of Herpes's per of the Humour that occasions them. The first is Herpes simplex,

proceeding from a cholerick Humour. The fecond Gripe is Herpes miliaris, occasioned by a sharp faline Hunour, cholerick Humour acquires so great an Acrimony g the as to become corrofive.

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A simple Herpes de . foribed.

A simple Herpes is a Pustle, with a sharp Head of a yellowish inflamed Colour; Matter soon an pears in the top of it, though the basis is inflamed. but when the Matter is discharged they present heal, the Inflammation going off. They often ap pear fingle in the Face and other Parts; and fre quently spread over the Back, Sides, and Breat attended with an Erysipelas and a Feaver. They an canfed by the Grossness of that Serum which ough to go off by Transpiration, which making an Ob struction in the Glands of the Cutis, and being strongly impregnated with Choler, produces this Tumour.

Herpes miliaris de-Cribed.

Herpes miliaris, is a Cluster of small Pustules, almost of the Colour of the Skin; they itch ven much, and when rubbed iffue out a thin wateril Humour; and then a Scab grows upon the Head of them, of the Form of a Millet-feed, whence they derive their Name. As they heal in one Place they break out in another. In these Tumours the Humours which ought to transpire being both too thick to pass through the excretory Vessels, and too sharp and faline, occasion these small In mours in the Glands of the Skin.

Herpes exedens diferibed.

Herpes exedens, is a small Tubercle in the Skin, with an Ulcer like a Pin-hole upon the top of it, tity commonly without Inflammation or Fain; if it be pricked, it is foon cover'd with a dry Scurf, and in a little time, by its corrofive Qualities, corrode aur and consumes the Skin, indurating the Flesh under mys it, and the Parts about; the Humour that production ceth it being too much impregnated with sharp conrofive Salts.

Progno-Ricks.

As to the Prognosticks, a simple Herpes is nel per ther dangerous nor hard to cure; when it spreads a. over a Part it occasions a feverish Indisposition, la. which goes off when the Pustles suppurate. It is for. often attended with an Erysipelas. Herpes milian

Chap. XIV. Of an Herpes.

is difficult to cure if it affect the Face, Nose or Ears; when neglected it eats deep into the Flesh, and is hard to cure. Herpes exedens is very hard to cure, and if neglected ends in a Phadegana, or a Cancer.

The Cure is to be performed partly by Inter-

nals, and partly Externals.

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In a Herpes Simplex, the like Method is to be u- The Cure of fed internally, as in an Erysipelas; as Evacuation by a simple bleeding, and lenient Purges, and fuch Measures as Herpes. may temper cholerick Humours. In a Herpes miliaris, bleeding and purging are convenient, and Alteratives of the like nature with those in the Itch. As for Herpes exedens, what Method is to be observed in the Cure of it, will be proposed in

the fecond part of Ulcers.

External Applications in the Cure of an Herpes, are much of the same nature with those in an Eryspelas, but more drying and cooling, there being no Danger in this Case of any ill Consequences of preventing the Discharge of the Matter out of the Blood, or of repelling it. Medicines commonly ufed are, Polyg. Equisetum, Millefol. plantag. solanum, Lithargyr. Auri, Argenti, Ceruss, Tutia. Bol. Arm. Skin, ol. Rof. Myrt. out of which with a convenient Quanof it, tity of Wax, Cerots or Unquents may be made as it be Occasion requires, as, Re suc. plantag. summit vitus polygan, aa. ziij. Tut. præp. cerussæ aa. zs. Litharg. rodes auri zj. Antimon. Ziij. Ceræ. q. s. & cum ol. ros. & indet myrt. f. Cerot. or, Unguent, alb. camphorat. Diapomodu pholyg. Tutiæ, desiccativ. rubr. Nutritum cum popu-

In a Herpes miliaris stronger Medicines are to The Cure pe made use of. R pingued. porcin. vitulin. Vaccin, of a Herpes reads a. tos. fol. chelidon. sedi minoris, plantag. Ling. Canis miliaris. ion, ia. M. j. Calcis ter extinct. tbs. Calcanth. pulv. 31. It is for. æris ziv. omnia conquassentur, & simul dimit-liam entur marcescere per hebdomadam: postmodum addan-

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tur aq. plantag. suc. granator. aa. ziv. pulv. cort. Gran. 36. Terebinth. clarissim. 3iij. iterum bulliant, & cum q f. Cere. f. Unguent. or R Axung. por. cin. ol. Laurin. aa. 313. Unguent. Rosat. 3111. Auri. pigment 3ij. Merc. sublimat. 318. Argent. viv. Salin. jejuni extinct. 313. Litharg. Auri, Argent. & Cerufi aa. 3iii. M. in Mortar. Marmoreo pro Ufu.

Why A-Aringents are proper

As to the Reason why these Astringent drying Medicines are proper in a Herpes; since it pro ceeds from an Obstruction of the Glands of the in a Horpes. Skin, several Difficulties may offer; for since the hA Humour fixed in the Glands of the Skin, is fepacon rated from the Mass of Blood, and contained in the proper Vessels of those Glands, it is impossible they wh should act as Repellents, there being no Regress the for the Humour into the fanguiferous Veffels, it fin being contrary to the Course of Nature to suppose, the that a Humour can have a Reflux, where by the cafe Circulation of the Blood, a constant Pressure of mat fubfequent Matter endeavouring to pass into the that Part, would oppose that retrograde Motion, a me well as the natural Structure of the Vessels. then both the tendency of Humours in Circulati Moi on, and the Structure of the Parts, shew the Im raffe possibility of these Medicines, by acting as Repellents, to move the Matter of the Tumour out of the cutaneous Glands; and if, as Astringents virtually or potentially, they obstruct the Pores of the of a Skin, and consequently hinder Transpiration, it com may be a Question how they contribute to the cent Cure, since there is no other way for that Humour me sto be discharged, except externally. Another Diff B ficulty which offers in respect of the use of Astrin recognition, is the Tendency of a Herpes, especially acea simple one, which as it terminates in Suppuration ome Astringents can scarce promote their Maturation, ith. and since in a Herpes milliaris, the Matter discharges were ges it self by a thin Gleet, and Astringents tend to self the

.I Chap. XIV. Of an Herpes.

the stopping of that Discharge, the reason why Aringents contribute to the Cure of them, is far-

her to be enquired into.

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In order therefore to the affigning of a proper Reason for the Use of these sort of Medicines, we may consider, that though in a Herpes simplex Asringents cannot contribute to the Cure by promoing Maturation, yet since by their constrictive Power they contract the Veffels, and corrugate the skin, they may by that means prevent the farther fully of Humours, and confequently, that already epa contained is the sooner digested and discharged.

In a Herpes milliaris Aftringent drying Medicines, ther (which likewise cool by Accident, as they prevent greß the Influx of hot Humours,) not only by contrait ding and constringing the Skin, take away and stop oof, the Supply of that sharp saline Humour which ocassions the Tumours, but also absorbe and dry up e of that which issues out, and is already contained; so the pat for want of a constant and continued Moisture at the ulcer'd Pustle becomes dry and separates from If the found Skin, by the Interpolition of transpiring plate softure, which being natural and homogeneous, Impaffes through the Pores of the Skin freely and with-epel at Interruption; so that Astringent drying Mediinto the cines contribute accidently and mediately, and not into inmediately by their evident Qualities to the Cure of a Herpes; only in a sample Herpes, where it is the complicated with an Erysipelas, they by their evident Qualities to the Cure of the complicated with an Erysipelas, they by their evident qualities to the Cure of the complicated with an Erysipelas, they by their evident qualities to the Cure of the complicated with an Erysipelas, they by their evident qualities to the Cure of the complex to the cure of the complex to the cure of the cu

the ent Qualities repel the Humours which tumify nour me fanguiferous Vessels, and instance the Skin.

But to proceed, in tender Bodies, Merc. Dulc. or string racip. mixed with Unguent Rosat. may prove serviceable; but in strong Bodies, the part may be strong be mented with a Lixivium, or an Ablution of Turtion; ith. Spirit of Vitriol and the caustick Stone are schart kewise serviceable. In a Herpes milliaris these and the sedicines are serviceable, either as they dry up the nd to ledicines are serviceable, either as they dry up the

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fuperfluous Moisture, and so help to separate the dry. ed Parts, or as they by their mercurial Qualities alter and discuss the Humour that might supply the Cause of them.

CHAP. XV. Of an Oedema.



Aving shewed how hot Tumours and occasioned by the depraved Crasis of inflammatory Humours, and how Medicines, whether internal or esternal, exert their Qualities in relie ving them, I shall now proceed to

examin the nature of cold Tumours, and how Mo dicines may contribute to the removing of them;

and first of an Oedema.

Description.

An Oedema is a foft cold Tumour, without change of Colour, Pulfation, Heat, or Pain, except what the part is very much distended; the Humour that occasions it being heaped up by Congestion.

The Canles

The Cause is either antecedent or conjunct, as in precedent, other Tumours. The antecedent Cause is Twofold viz. either the ill Crass and Indisposition of the Blood and Humours, or the Weakness of the Parts The ill Disposition of the Humours is occasional feveral ways. As First, By the Fault of Digestion, for want of due Digestion, Crudities being heaped up in the Blood. Secondly, By the Grossness and Intemperature of the Air, Crudities may be heaped up in the Blood, the Humours being either chilled in the Veffels by external Cold, or not sufficiently impregnated with nitrous Particles in the Lungs or its Ferment checked and overpowered with to

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geat a Quantity, fo that Errors happening in the arond Concoction accumulate indigefted Humours, hough the Chyle was sufficiently digested in the somach and Guts. Thirdly, Crudities may be haped up in the Blood, for want of the usual and utural Discharges made by accustomed Exercise. When the antecedent Cause is heaped up any of mefe ways, the Humour is commonly gross and alegmatick, and too thick to pass freely through le Veffels; yet according to the different Constitutons of the Persons affected, the indigested Humour Il be variously deprayed, being either Cholerick. impregnated with sharp and acrimonious Salts. t the Indisposition of the Humours in an Oedema not only occasioned by the Accidents aboveintioned; but, Fourthly, Also by the Weakness the Parts, when by some Fault in the Structure I Formation of the Viscera, they are not able dueto perform their respective Offices, as when the ver does not duely separate Choler to perfect and est the Chyle in the Duodenum, crude Chyle is ryed into the Blood, where meeting with that de Choler which was not separated in the Liver, s Composition will produce a Humour the more braved; and so by the Weakness of any other of Viscera, a Humour may be variously depraved; ng not only crude and phlegmatick, but also eir inclined to Acrimony or some other depraved disposirion.

Thus much of the antecedent Cause, in respect the Humours and Weakness of the Viscera; but the Weakness of the Viscera may be esteemed an eccedent Cause, as they prepare the indigested mour, so also the Weakness of the Part affected the the antecedent Humour may be esteemed an eccedent Cause also, since by Weakness a Part y give way to the Pressure of Humours, and octon Tumour, though the Humour might not be

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fo much depraved as otherwise to occasion a To mour; for when the Fibres of a Part are fo mud weakened as to lofe their tonick Stricture, the may give way to the Impression of Humours, thous thin enough to circulate without Obstruction, and thus contribute to the forming of a Tumour. The Weakness of the Part may depend upon the Wea ness of the whole Oeconomy; or its own pa ticular Structure, or may be occasioned by pred ding Accidents, as Contusions; Fractures, Lun tions, &c.

The Confes.

From what we have faid, the antecedent Can jund Cau- of an Oedema are evident, as to the Conjunct, the are either the Weakness of the Part which admi the Tumour, or the Humours collected by Congel on in that Part; for the Weakness of the Part not only antecedent, but also conjunct, fince it a tains the Humour, and is not able to expel it. The Humour contained in the Part differs according the Difference of the antecedent Caufes.

Diagnosticks and Progno-Hicks.

These Tumours are easily distinguished by the Description. As to the Prognosticks: An Oeden in it felf is not dangerous, gross Bodies are con monly most subject to them. When they are on fioned by Accidents, as Wounds, Contufions, & they are easily cured, but in weak and consumpti Bodies they easily degenerate into Dropsies. they grow hard and painful there is Danger d Schirrus, and if they tend to Suppuration, t Matter being crude, the Cure is long and tedious

Intentions of Cure.

In the Cure there are three general Intention First, The preventing of the Increase of the in Secondly, The discharging a gested Humour. correcting the gross or depraved Humour alrea collected in the Body, which is the immediate tecedent Cause. Thirdly, The Removal of the a junct Cause, which is the Humour congested in

The part, and varies according to the different Temper mud of the antecedent Cause.

The first Intention is to be obtained by a due the ough of the Non-Naturals, or the proper Use of Medi. Intentions ough of the Non-Naturals, the Stomach, and promote The pigestion. In Respect of the Non-Naturals: The Diet is to be moderate in Quantity, that it may pa not overpower the natural Digestion; for whatever pred featen, more than the Stomach is able to digest, Lux ccasions Indigestion and Crudities; therefore it is be proportioned to the Strength of the Stomach, do to confift of fuch things as are easy of Digestion. The Drink is to be warm and strengthening, and at it may assist Nature in digesting. The Air part it may assist Nature in digesting. The Air night of the bedry and warm. Exercise is very proper, since it puts Nature upon a Discharge, and alps to attenuate Crudities in order to their being scharged by the common Emunctories of the body; but it ought to be so moderate as not to re and spend the Spirits; for if it be violent, by the demonstrate without Fague, by exhausting the Spirits it becomes prejudities on the Spirits are buried and consumed in the phlegmans, the the Humours. tk Humours.
But to prevent the Increase of phlegmatick Hu-

But to prevent the Increase of phlegmatick Hucus, a good Regimen in the Rules of Living is er of tonly to be observed, but the Stomach is to be engthened by internal Medicines, viz. such as dious comote Digestion, by assisting the Ferment of the omach, as Sal Volat. Oleos. Elix. proprietat. dropine in Wine or any proper Cordial, as aq. Gent. Abin Wine or any proper Cordial, as aq. Gent. Abong a th. Compos. Mirab, &c. taking first the Quantity alrea a Nutmeg of the following Electuary, R. Conf. interactions. flaved. Aurant aa. 318. Cort Citri cond. 38. the conf. L. Mosch. cond. 3vj. Spec. Diarchod. Dii. cum q. s. dint r. de cort. Citri. aut Cariophyllor. f. Elect. or this Electuary may be added other Cordial Sec.

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cies, or Electuaries, as the Condition of the Pat not

ents Stomach may indicate.

The Stomach may be likewise strengthened be external Applications, either Emplasters or the guents, forms of which are prescribed in the La don Dispensatory; or with Fomentations made is warm and aromatick Herbs, as Absinth. Card. In medict. calom. Aromat. &c. Mr. Wiseman recommends Decoctions of Sarsaparil. Lign. Guajac. Sa saphras. &c. But I believe, that such Medicine as are of a direct Diaphoretick Quality scan make good Stomachicks, since they seem to raise disagreeable Heat, which rather destroys than promotes the Ferment of the Stomach. Nay even the best of Cordials, if taken in too great a Quantity prejudice Digestion by over-heating the Stomach.

The Second Intension.

But to proceed to the second Intention, which is, to discharge and correct the antecedent Cause or ill Humours heaped up in the Blood. If the Body be strong, and only full of gross phlegmatic Humours, bleeding is convenient, to discharge part of them, and by that means make more roof for the attenuating of the rest, which will be the better disposed to go off by Evacuations of othe kinds; but if the Body be weak, and the Vessempty, Bleeding is to be avoided, less the Patien being rendered still weaker, should be, by the means, inclined to hydropical Tumours.

Emeticks proper.

But whether Bleeding be thought convenient not, if the Stomach be foul, and the Patient all to bear it, it will be convenient to discharge the foul Humours lodged there by Emeticks, which will contribute to the first Intention as well as the second, as Oxymel scillit, Vin. Benedict. Sal. It triol. &c.

Evacuation When the Stomach is cleanfed, it will be likewing by purging. requisite to make Evacuation by Purging, which m

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Pat not only carry off the foul Humours in the Guts, but a make a Discharge of the Cacochymick Humours
the Blood. And since the Humours the Blood. And fince the Humours are common-ly gross and phlegmatick, purging Medicines ought be proportionably strong, and such as are comde conly reputed phlegmagogues; which by their amonious viscous Parts, have a Congruity, as a oper menstruum, to mix with more readily, and insequently attenuate in order to their Discharge, viscous slegmatick Humours in the Blood. Improper on such Occasions may be as followeth, rad. apii, petroselin. aa. 38. sl. persicor. genist. P. i. 3ij. sal. Tart. 3ij. agaric. in nodul. inclust. 3is. zib. 3i. coq. in aq. font ad zviij. Colat. add. Syr. sin. Cervin. 3x. pro duabus vicibus. Or, R rad. is 3i. cort. intern. Sambuc. Ebuli aa. 3s. rad. iic. petroselin. aa. 3ij. Summit. Centaur. min. amon. marrhub. alb. aa. M. j. slor. Sambuc. genist. M. ss. sem. fonic. carui. aa. 3is. fol. sen. 3x. M. ss. sem. fænic. carui; aa. 3is. fol. sen. 3xe bith. sem. Carthami. 3iij. f. Decoctio q. s. vini & charge e, ad 3 part. stent in infusione per Noctem, room me colentur zxij. Re Colatur: ziv. syr. e spin. Cereth zij. M. f. Haust. per aliquot dies reiterand. other ich not only make a Discharge by Stool, but Vesse ine. If stronger Purgatives are requisite Pil. ex y the But as purging Medicines are to be frequently Alteraeated to discharge the gross Humours, so it will tives ients convenient to make use of Alteratives, those convenient to make use of Alteratives, those cost venient are such as strengthen the Spirits and white od, and consequently attenuate and promote as the Digestion of the phlegmatick Humours, as Sal. sal. st. Oleof. Vin. Chalyb. or Chalyb. Medicines mixwith Cordial and Antiscorbutick Powders and ikewi chuaries. If the Humour be thin, and the Tu-chmi ir proceeds chiefly from the Weakness of the els, a Decoction of Sarsaparil. Lign. Guajac. &c.

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may be convenient, but if the Humour be phles matick, such Diet Drink would rather incrassa the Humours by carrying the thinnest part only by Diaphoresis, leaving the grosser Phlegm undil ted.

The Third Intention.

The third general Intention, which respects the Removal of the Tumour it felf, is to be effect by external Remedies, which are to be varyed cording to the Time of the Tumour; as it is in Beginning, State, or Declination.

What is to be applyed in the Beginning.

In the Beginning, Aftringents mixed with D cutients are proper; Astringents contracting an confirming the Tone of the Fibres, and Difcui ents likewise strengthening the Parts, and also tenuating and rarifying the Humour. If the I mour be small, Spirit of Wine it self may be it ficient; but,

What Me-

In the State, when the Tumour is large, firm dicines are ger Discutients may be proper, as Re summit. proper in finth. abrotan. Origan. Calaminth. puleg. samba the State. cham. Rut. Salvia. aa. M. j. Bac. Laur. Junip. 3). fem. fenic. Danci. carui cymin. aa. 36. conti dantur simul & coq. in q. s. aq. ad dimid. consum Colatur. add. Vini q. f. f. Fotus. The Volatilel fluvia of these Aromaticks not only attenuate a digest the gross Humours, but dispose them better to go off by Sweat, Urine, or Stool, as ternal Remedies shall give them Tendency, promote their Excretion; and as they disposet Humours, the more easily to be discharged attenuating them, fo they have the Effect though not so powerfully, of Alteratives inten ly, fince they attenuate and alter the Crass of Humour, impregnating it with their Volatile h ticles. After the Use of the Fomentation, the? may be embrocated with ol. Laurin. Rutæ or Call applying the following Cataplasm, Re farin. fat bord. aa. 3vj. sum. Absinth. Rut. Origan. abrol

ulv. aa. 31s. flor. Sambuc. cham. rof. rubr. aa. 3ij. oq. in fotu prædict. ad Cataplasm. Consistentiam, ddend. in sine aluminis & sulph. Viv. aa. 3j. ol. Rut. mellis q. f. If these Discutients are not strong nough, the Fomentation and Cataplasm may be nade in a Lixivium, and the Part embrocated with the following, R Cin. brassica 3ij. Unguent. e Alther. 3iij. ol. cham. chym. 3i. M. Emp. de Min. cum Sapon. or Diasulph. are also proper Distients in these Cases.

As in the Beginning Astringents mixed with Distribution with the Beginning Astringents mixed with Distribution with the Declifical revent them giving way to the Influx of Humours; nations of in the Declination they are requisite, to contract the distended Fibres, whilst they are strengthened, best to the volatile spirituous Parts of Discutients, for which purpose the following many harmonics.

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But when all other external Means are ineffe-What Banalian that, a laced Stockin, or Trowze, or a laced Sleeve dage must
that a laced Stockin, or Trowze, or a laced Sleeve dage must
not be the deven, answer the Intention; for if they be laminer to be
the acts, and fo prevent the Influx, or press out the
lumours already congested. If the Tumour be
arge, the Stockin or Sleeve must be laced streighose the and streighter by Degrees, as the Humours
radually give way to the Compressure; and Care
built be taken, that the Lace be drawn equal, less
intent in unequal Compression of the Parts should occasisoft in Tumour. One great Advantage in a laced
tookin or Sleeve is, that they may be used in any
ine of the Tumour, whether Beginning, State,
the Cast of the Tumour, whether Beginning, State,
the Declination, and answer the Intentions both of
the state of the Tumour and the state of the Intentions both of
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the state of the Tumour and the Intentions both of
the state of the Intention and Inte But when all other external Means are ineffe- What Ban-H 2

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Use of them, and internal Remedies to discharge the Humours out of the Mass of Blood, and move the Cacochymia; yet if they be unlaced, and the Parts somented once a Day, it contributes the better to the removal of the Humour, since what attenuated, it is more easily pressed out by lacing besides, the volatile parts of the Medicines help to corroborate and strengthen the Fibres of the Parts and ease the Parts also by opening the Pores, and giving a breathing to them by Transpiration. But in the Use of a laced Stockin, &c. Care must be taken, to leave off streightening the Stockin, who the Part is reduced to its natural Bigness, other wise by the ill use of it, the part will be emisciated.

CHAP. XVI.

Of a Scirrhus.

Bescription.

Scirrhus is a hard Tumour immoveable, and of a dark red, or livid Colour, either altogether voi of, or endowed with very little Senfe.

The Causes.

The Cause, as of all other To mours, is antecedent or conjunct. The Nature of the antecedent Cause will easily appear, if we consider the Nature of the conjunct. And since in a Scirrhus, the Humour is not only so gross and in digested as to be denyed a free Passage and Circulation through the capillary Vessels, but hath required so great a Degree of Viscocity and Thickness as immediately to cause a total Obstruction and

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lendency to Induration. It will be requisite to xamine, first, how this Humour comes by so great Degree of Viscocity; and, secondly, why that iscous Phlegm is so apt to tend to Induration.

And first for the Reason, how this Humour ac- Vicousness uires so great a Degree of Viscocity. We are to of a Schironsider, that those Bodies that are subject to such mour, ind of Tumours are naturally of a phlegmatick, whence. rather melancholy Constitution or Habit of Boy; fo that the whole Oeconomy of the Humours re perverted and depraved in their Crasis and Disofition, by which means the natural Ferments of he Parts are also vitiated and degenerate from a rue natural Tempérament. Now the Ferments of he Parts being thus deprayed, it is impossible but hat the Humours fermented and digested by them ould be perverted likewise, it being the Nature fall Ferments to convert the Juices they ferment to a Substance similar and homogeneous to themlves, whatever is made use of for the Sustenance those Bodies, being strongly impregnated with e Particles of those Liquors that ferment it. nd fince in Bodies of a melancholy Habit and isposition, the Humours are not exalted to that gree of Digestion and Volatility, as in those of languine or good Constitution, the Liquors assilated by them must likewise be crude and indifted, and confequently gross and inclined to Viscity. But as long as they retain that degree of gestion, which is homogeneous to the Body they long to, they in respect of that Body may be said be natural, and answer all the Intentions of ture, without occasioning any Disease; the naral Structure of the Vessels and Crass of the Huours of the fame Constitution being proportionaand fuitable to one another. But when it hapkness n and Ten is, that the natural Fermentations of the Parts, confequently of the Humours they prepare,

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are depressed below the natural pitch of that Body they belong to; Crudities may then be faid to heaped up in that Body, by which, as they more or less abound, the Blood may be rendered too grow and thick to pass through the Capillaries of the Body, and fo occasion Tumour. And since Crud ties in a Body whose natural pitch of Digestion i higher creates Phlegm, in melancholy Bodie to Confinu- where Digestion is naturally depressed, Cruditie in those Bodies must be more gross and viscid as they are more crude and indigested.

Crudities different accordig. tions.

The Nature Humours, further confidered.

But the Crudities in a melancholy Body and of Scirrhous not only more crude and indigested than in other but are likewise impregnated with something, the inclines and disposes them to Induration, which likewise the Cause of their being more viscous that ordinarily. The better to understand the Natur of this, we may consider, that in all Bodies the N ture of the pancreatick Juice is acid, the Ufe it being allowed to be to curdle the Chymusi the Duodenum, that the Chyle and excrementing ous faces might be separated from each other Now fince all Acids, as well as other Qualities in Humours, the less they are digested, becomen more crude; they must consequently be more crud in Bodies of melancholy than of other Constitut ons, fince the natural pitch of Digestion is lower and fince Acids, the lower they are digested, an the more crude they are, are the nearer to an Al stere; (as the Juice of the Apples, which by Dig stion loses its Austerity as it becomes more acid; and fince likewise, it is the Nature of Austerest render them more inclinable to coagulate and gro viscous, the Bodies they are contained in, than h c ds; it will not only follow, that when Digestion is depressed in a melancholy Body, the pancreatic att. Juice comes nearer to an austere Quality, but the Juice comes nearer to an austere Quality, but the it will also by Consequence communicate the Qu

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Body ties it is endowed with to the Chyle in the Duoenum, by which means the Chymus ill digested in the Stomach, will be very little improved in the Duodenum. The fermentative and digestive Qualiies of the Choler being depressed by the great Aidity, or rather Austerity, of this pancreatick Juice; so that the worst of Crudities are conveyed into the fass of Blood, being not only too thick and viscid. ut by the Tincture of this acid austere Juice, inclinaiscid. The to coagulate and indurate.

And thus much for the Nature of the antecedent The Nature an Cause, from whence appears also the Nature of the of the comonjunct; for when either by a Separation of the junct Caufe hinner Serum, or orherwise, this crude Humour considered. made thicker or chilled by accidental Cold, or s that my other Accident, so that it happens to want its ree Paffage, and obstructs in the Vessels; for want f the Agitation and Motion of Parts it had in life a Circulation to preserve its Fluidity, it soon coagu-nus it ates, and, as other gross Bodies, presently grows entition is is a greater degree propor-other ionably to the Nature of the acid austere Qualities nalitie atent in it. Now whereas in other Tumours the neth Humour is impregnated with volatile, saline, sulcrub hureous Parts, which are predominant, and conower Discussion, or Suppuration; in this viscid Matter, in the volatile Salts or sulphureous Parts are so much Discussion, or Suppuration; in this viscid Matter, an As depressed, by this acid austere Juice, that they are Dig of able to exert themselves, much less to divide acid; and separate the Parts of so tenacious and viscid a crest Coagulum, or to bring them to Digestion; but the more thin and sluid Serum being separated from the viscous indigested Phlegm by Coagulatigestion, it gradually evaporates, and accordingly the reating atter grows harder and more confirmed; so that the last it forms a perfect Scirrhus.

The Differences.

As to their Differences, they happen according to the Nature of the Humour, as it is more or les viscid, and is complicated with a Humour of and ther kind, as Choler, Phlegm, &c. and fo a Scir rhus may happen to be Oedematodes Phlegmonoides, They differ likewise, according to the time of them, as being either imperfect or confirmed Or as it is an Original Disease of it self, or the Termination of another, as a Phlegmon, or Oede ma, through ill Management the thinner Parts be ing evaporated, and the groffer Phlegm left be hind.

The Diagnosticks.

As to the Signs: A true Scirrhus is a had Tumour, immoveable and of a dark red Colour, but livid, if the Humour be mixed with Phlegm A true Scirrhus is likewise void of Pain, but a imperfect one fensible when pressed upon. If the Tumour be Original at the first it is no bigger than a Pea, but gradually increases. If it be the Event of a preceding Tumour, that will appear from the Accidents that attend it.

The Prognosticks.

A Scirrhus confirmed, and without Sense, is in curable, the Induration being fo great, that the Parts of Fluids cannot interpose to separate and diffolve them. But an imperfect Scirrhus is some times diffolved, but fometimes terminates in a Can cer. A Scirrhus proceeding from Phlegm, the Skin being without change of Colour, and being hand and large, with Hair growing on it, is incurable.

Intentions of Cure.

In the Cure of a Schirrhus there are three Intertions: The First is a regular Diet. The Second is to discharge and cleanse the Blood of the anter dent Cause. The Third is a due Application of Medicines to the Fart it felf.

The First Intention.

And first their Diet ought to consist of such thing as are easy of Digestion, and not subject to be sowred to by Acids in the Stomach and Guts, and their Drink fuch as may warm the Stomach, and correct Acidi

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The second Intention is performed by frequent E- The second acuatious by Purging, and making use of such Me-Intention. dicines as may digest and alter the peccant Humour n the Blood. And first if the Body be full of Hunours, Bleeding may be convenient, otherwise to e avoided; the Body is to be kept open by Clusters. nd the Humour discharged by convenient Purges, s Decoct. sennæ Geronis, Epithym. pil. de Lap. Laul. de Agaric. aggregativ. &c. which are frequenty to be repeated, that by quickening the Peristalick Motion of the Intestines, they may make a uicker Discharge of that slimy Mucilage that naurally lubricates them, and fo drain the Blood of perfluous Phlegm. Those Days that are vacant etwixt Purging, alterative Medicines are to be iven, which may not only strengthen Digestion in he Stomach, and correct the Acidities of the Panreatick Juice, but also imbibe and correct the Aciities of the Blood, and promote the Digestion of he whole Mass of Humours, by strengthening the pirits, and promoting the natural Ferment of the lood, as Sal. volat. oleof. sp. Sal. Arm. cum Gumm. mmon. or Milleped. which may be taken in a connient Julep of Aq. Absinth. Gent. Comp. Aq. Mib. &c. As also Electuaries which are Stomachick d Antiscorbutick with Chalybeates and proper ntiscorbutick Powders and Species; but these benging more to a Physical than Chirurgical Difburse, I shall proceed to

The third Intention which respects the Tumour The third felf. Where Repellents are useless, and rather in- Intention. ching arate and harden such gross Humours, Emollients owed e likewise to be cautiously used alone, lest the Drink amour tend to a Cancer, the Tumour being sof-Acidi med without discussing. Too strong Discutients

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are likewise dangerous, lest they increase the Tumour by confuming the thin, and leaving the groß Part to indurate; they are therefore to be propon tioned to the Constitution of the Patient, and the time of the Tumour: tender Bodies require milde Discutients, and those in soft Parts are more easily diffolved than those that are on the Ligaments and Tendons.

Where mild Refolvents are convenient, the following lowing may be made use of. Adeps Gallin. ol. amy dule. lil. adeps Anseris, sevum bircin vitulin. vacin axung. porcin. vet. rad. Althew lil. sem. fanug. lini, &c or where stronger are requisite, Rad. cucum. agrel bryon. figil. Solomon. Ireos. pix naval. liquid. Terebint Gum. Galban. Ammoniac. Bdellium Opoponax, &c.d which convenient Topicks may be compos'd; a R rad. Althee lil. aa. 3iv. rad. cucum. agreft. 3 fum. cicute M. ij. fum. Majoran. M. j. fl. melil. fambu aa p. j. sem. lini, fænugræc. Althææ aa 3j. coq. in q. Aq. font. colat. add. acet. parum, which being mix with proper Diffolvents, hath a very penetrati Quality, and contributes to the diffolving go Humours.

In tender Bodies, and the Beginning of the I mour, the following Cerot is proper. Re rad. A thee this. rad. lil. Ziij. sem. lil. & fanugrac. aa 3j. a in Brodio ex capite & pedibus vervecin, deinde pift tur. & trajiciantur per setaceum, addend. ol. Cham. āa Zij. asyp. Zj. f. Emp. Diachyl. simp. cum ol. lil. sit 311]. ceræ alb. q. f. f. Cerot.

If the Scirrbus be perfect, and amongst the To dons, Fumes of Acetum, or Spirit of Wine spil kled upon a hot Stone, will be proper, rubbin the Part, and applying the following Cerot. R. Gu Galban. Ammoniac. Bdellium in acet. solut. aa. re, Styrac. Liq. 3j. Diachyl mag. 3ij. ol. lil. axung. An aa zj. cerot. æsypat. zij. liquescant omnia simul & a ceræ alb. q. f. f. Cerot. molle.

Thus much of Medicines proper to be applyed the Tumour it felf; but how they affect the Tunour, and help to discuss and dissolve the Matter f the Tumour, fince it will fufficiently appear from hat hath been faid of the Nature and Manner of Discussion, in the Chapter of Tumours in General, e shall not need to repeat it here.

CHAP. XVII.

Of Warts and Corns.

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Wart is a fungous Excrescence, Description thrust out from the Extremities of of Wars. fmall Veffels in the Surface of the Cutis, occasioned by a Tumour in the Glands of the Skin, which grow fpongy, and increase after the man-

er of a Sarcoma. Their Surface is sometimes smooth nd fometimes ragged, and chapped. Those which the find sometimes ragged, and chapped. Those which ad. A see from a broad Basis are called Verruce Sessiles; there rising from small Roots enlarge themselves, a pilot and form a pensile Tumour called Acrochordon.

A Corn is a Scirrhus Tumour on the Surface of

A Corn is a Scirrbus Tumour on the Surface of Of Corns, il. some Cutis, formed by a Condensation of that Serum and their Cause. hich is feparated by the Glands of the Skin, which he To eing too thick and viscous, condenses in the excre-e spring by Vessels of the Glands, and is fed and increased rubble y the Addition of fresh Matter from the Gland & Gw hat lyes under it, and from whence it rose: as it as it creases it is forc'd into the Skin by external Presure, and so becomes painful; as also Pain is occamed by the Obstruction of that Humour which ought ought

ought to be discharged, the Pores being crouded with it, and consequently the nervous Papillae compress'd by it. The Corn seems to grow from the Cuticula inward, because the Apposition of Matter which increaseth it is from the Vessels that lye under it, but that they grow from the Vessels below, it evident, since when they are cut away externally they grow again from their first Origin. They are sometimes soft, and sometimes hard, according to the Quantity of viscous Matter they are supplyed with, and its Indisposition to indurate.

Diagnoflick. Both Warts and Corns are so apparent, that they want no Tokens or Signs to discover them.

Progno-

Warts frequently fall off themselves; but Corns are seldom cured, but are subject to return again.

Cure of Warts.

Remedies commonly applied to Warts are, the Juice of Celandine, Marygolds, or Spurges, or the may be rubbed with ol. Vitriol. or Sulphuris, which will gradually confume them; but the quicket way of destroying them is by Ligature, or the Califick Stone.

of Corns.

Corns are cured by paring them off, and applying red foft Wax, or Be picis naval. 3j. Employ. Diachyl. mag. 3iij. Gum. galb. acet. solut. 3s. Sala Ammoniac. 9j. M. or Be Alum. Vit. Ungar. Aurips ment. aa p. aq. pulver. & cum acet. misc.

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CHAP. XVIII.

Of a Cancer.



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Cancer is a round Tumour, unequal-Description. ly hard, of a livid or brown Colour, with exquisite pricking Pain; and sometimes Inslammation, the Veins in the Surface of the Skin being turgid.

As for the Reason of a Cancer, since there seems The Cause be an Affinity betwixt it and a Scirrbus, they ing frequently complicated, and a Scirrhus often generating into a Cancer, as an Oedema does into Scirrbus; it may not be amiss to consider the Affi- The Affinity wlikewise betwixt the Causes of a Scirrhus, and betwixt the Cause of a Cancer. From what hath been said Cause of a erefore of the Cause of a Scirrhus, it appears, and of a t the viscous Matter which occasions it, proceeds Cancer, m Crudities impregnated with the Pancreatick confidered. ce, which, for want of being digested to its naal Pitch, is a crude acid, and fo comes nearer the Nature of an austere, for which Reason we lit acid-austere. Now as this mixed with Cruies makes them viscous, and is the Result of lancholly Humours depressed below their natural ch of Digestion; so we suppose, that when this d-austere Juice is conveyed into the Blood, and th circulated fometime; by frequently passing ough the Ferment of the Spleen and Liver, ng farther digested, and mixed with the Choin the Substance of the Liver, it acquires hot and sharp Parts; or the Choler compopartly of this indigested Ingredient, is too ofs to be separated altogether by its proper Vefin the Liver, and fo flows back along with the

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the venal Blood, and is mixed with the whole Mass and this crude austere cholerick Humour we take to be the antecedent Cause of a Cancer, which is ing the Cause of a Tumour, by obstructing the capillary Vessels, when it is lodged sometime in the Part, the cholerick Particles overpowering the capillary Particles, get the Predominancy, and acquire a greater Degree of Acrimony, so that the conjunt Cause of a Cancer is a crude austere Phlegm mixed with an acrid crude Choler, grown virulent by its Tendency towards Corruption; but the Nature of the Patient being more or less cholericks phlegmatick, and so of less or greater Assinity with a Scirrbus.

Differences.

Cancers differ either as they are ulcerated or m Those which are ulcerated, are either exten with Tumour, or latent, as in the Palate Anus, & Some that are not apparent are also without Uk ration, being hard and moveable in the Glands the Breast, being partly scirrhous; others are he and fixed to the Bones. The milder fort of Ca cers, which are partly fcirrhous, increase flow and are not very painful. Cancers which are un rated, fometimes bleed, from the Extremities Vessels in the Fungus. They also differ accordi to the Difference of the Part affected, and as the arise from small Tubercles, or an Excrescence; for whence it spreads into the adjacent Parts with la Fungus, rotting and corrupting the Bones und them. Cancers in the Uterus or Podex also di as they effect the internal or external Parts. Wh they affect the Bottom of the Uterus, or the up Part of the Rectum, they do not appear till to have made a confiderable Progress, occasioning procidentia Uteri or Ani, and a Suppression of Uni with great Difficulty of going to Stool. If it is

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en in the bottom of the Uterus, it is attended ith a Fever, Nausea, and Anxiety of Mind.

As for the Diagnosticks, whether they begin The Diagwith a Tubercle or Excrescence it is very small at gnosticks. he first. They increase according to the Nature the Humour, quick or slow. If the Humour equipment every corrosive, they are very painful, attended ith a Phlegmon or Erysipelas; under the Inflamlation they are foft, but if open'd, only issue out a leet, which dryes up again when the Pain is afvaged. Sometimes a Cancer is attended with an dematous Tumour, the whole refembling a Tuick of four by Congestion, of a pale livid Colour mixed
ith brown, the Veins in the Skin being large and argid; fo that the Tumour and the Veins being ompared to a Crab and its Claws, they thence erived the Name of Cancer. The Swelling is ade up of a great many Tubercles, which make e Tumour large and unequal: at last they break d ulcerate with hard painful Lips thrust out, and scharge a stinking Gleet.

A Cancer is generally incurable, the corrofive The Proalignant Quality of the Humours, being neither grofficks. heck'd with internal nor external Medicines. Those at are superficial, or proceed partly from an exteral Cause, as a Bruise, &c. may be removed by nife or actual Cautery; but those that proceed om an internal corrosive Humour, tho' removed Knife or Cautery, are dangerous, and if cured, e hard to cicatrize, especially those in the Mouth,

internal Parts.

In the Cure there are three Intentions. First, he making of good Blood. Secondly, The correing and discharging of the peccant Humour in of United the Increase of United the Increase

rict Regimen in Diet, which is to confift of fuch things

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things as are easy of Digestion; and avoiding all fuch things as are falt or sharp, or apt to breed Condities in the Stomach.

The fecond Intention.

The fecond Intention is next to be purfued: And first if there be a Plethora, or Hæmorrhoids or Menstrua be stopp'd; Bleeding is convenient; and Clyster to make the Body soluble; after which the Humours may be discharged with lenient Purge as Decoct. Epyth. fen. Geron. &c. giving the follow ing Decoction thrice a Day. R. rad. & fol. Car chelidon. maj. pimpinel. Gent. Planta ophyll. aa. M. j. coq. simul in Aq. part. ij. Vin. part. j. d thii, to be sweeten'd with Sugar, which consisting of Bitters and Astringents, the bitter Qualities wil help to correct the Pancreatick Juice, and the Astrin gents contribute to take off the Edges, and alte the Nature of acid and sharp corrolive Parts, b imbibing and involving of them betwixt their Parts Or le rad. scrophular. maj. tapsi. barb. aa zij. filipent Ceterach. herb. Robert. Agrimon. tormentil. scabin linariæ aa M. j. flor. sambuc. Anth. aa p. j. sem. un 3ij. f. Decoct. Colatur. add. Syr. de pom. Alterant, e de suc. Citri. aa. q. s. the Ingredients of which be ing bitterish, astringent, and aromatick, the bitte rish aromatick Qualities correct the acid acrid Pa cles of the Humours, and the Aftringency involve and imbibes the hot corrofive Parts of the Blood and by that means dulls their corrofive Qualitis The following Electuary is accounted also a speci fick R. pulv. ranar. Limac. prap. aa 36. pulv. can fluviat. 31. os de corde Cervi 31. cort. citri cond. Conf. Borag. Lujul, aa 3ij. Syr. de suc. citri Caryon aa q. f. f. Elect. cap. q. N. Castinac. mane & vespen Superbibend. haust. decost. Supra descript. which all imbibe and cool the acid acrid Parts of the Blow Emulsions also and Opiates are convenient to all the Heat of the Humours, and ease Pain; for Op ates not only act as Anodynes, by their fomnifered Qual

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or Opi niferou Quali their anodyne Qualities also take off and dull the dges of corrosive Humours, and help them to scharge themselves by Transpiration; for when eir corrosive Qualities are dulled, they no longer rrugate and contract the Pores, by affecting the rvous Papillæ, but pass off freely, and without ing offensive, so long as the opiate Qualities contue their Effects.

But to proceed to the third Intention, which is the Third restrain the growth of the Tumour, and gently Intention, discuss it.

And first the Increase of the Tumour is to be Repellents, trained by the Use of Repellents, but such as when to be mild, lest they thicken, and make the Humour used. gross for Discussion, as Lastuc. portulac. plan-

District Ven. folan. semperviv. Unguent. alb. trit. Populeon. Tutiæ. de plumb. ust. or Lamina beaten Lead or Gold; which Medicines are Relents by Accident, gently abating the Heat of

Humours, and contracting the Parts by their ling Qualities, and as they are anodyne, and Pain: How such kind of Repellents proteir Effects, I have more fully answered at in the Chapter of Tumours in General.

Besides the forementioned Applications, Oyl of gs baked with Butter in their Mouths, is completed, and aq. Sperm. Ranar. with a Solution of char. Saturni, dipping Cloths in it, which are be renewed as often as dry. But in the Winwhen there is Danger of getting Cold by ong the Part often. Re ranar. virid. 3iij. Cansuviat. combust. 3s. Lytharg. auri 3ij. plumb. Tutiae prap. aa. 3ij. cerust. 3vj. suc. solan. planaa. 3vj. aceti 3ij. ol. ranar. & unguent. popul. 3iij. sev. vitul. 3iv. ceræ. q. s. f. cerot. Or, Re papaver. alb. 3j. sem. hyosci. 3s. Opii. 3j. Gum.

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Arab. 36. pulverizentur. ol. rof. myrt. aa. 3ij. ca q. f. f. Cerot. The former abates the Pain h cooling the Part, and the latter by its opiate Ou lities; but if the Pain be violent, the Quantity Opium may be doubled; or the Part may be mented with a Decoction of Poppy Heads, tops Melilot and Rose Leaves, applying the following Unguent. Re Theriac. Vet. 3j. fuc. cancr. fluviat. Suc. Lactuc. & ol. Rof. aa. 3j. B. Vitel. ovor. Sub. nerib. coct. No. ij. camph. 36. Agitentur in Mon reo plumb. which are both anodyne and cooling,

Discuti-

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When the Use of Repellents, which act the ents, when by accident, and gently, have been continued to be used. long as is convenient to restrain the Growth of t Tumour, whilst internal Remedies endeavour restore the Blood to its natural Crasis, and a away the fomes Morbi. It will be then convenie to make use of gentle Discutients, as, Agrin Ceterach. Lens. palust. scabios. Stramonium, such riandr. Limac, ranarum Cancr. fluviat. Raifins of Sun stoned and beaten into a Cataplasm, with and Garden Nightshade.

Extirpatiquifite.

But if the Tumour notwithstanding tend to on, when re- cerate, it may be convenient to extirpate it Knife, if it be loofe, and in a Place where it be done without Danger. In doing of will there will be hopes of better Success, if the tient be strong, and of a tolerable Constituti and before the Menstrua cease, and likewise if Cancer be loose, and no painful Glands under Axilla; or if it proceed from a Bruise or some ther Accident. As for the time of the Year, Spring or Autumn are most proper, the Spin being neither exhausted with excessive Heat, The manner depressed with extream Cold.

be done aftermards.

of Extirpa. In order to Extirpation, as in other Amput what is to ons, good Rowlers, Compresses, Restrictives Den

Chap. XVIII. Of a Cancer.

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Defensatives are to be provided; and cauterizing Irons ready heated in some part of the Room. Then the Patient being placed in a convenient Light, the Operator is to pull the Breast to him with one Hand, whilft he cuts it off with the other; and the Flux of Blood is to be stopped with pulv. Galen. but if there be any part of a cancerous Gland left behind, it is to be confumed by a cauerizing Iron; and the large Vessels themselves may also be restrained from bleeding by the cauterizing Button, if the restrictive Powder prove inessectual; Escharoticks being improper, especially in this Case, ince they will spread and corrode the adjacent Parts, nd cause Pain. But whether actual Cautery or Restringents are applyed, the Patient being dressed p with proper Defensatives, Compress and Banlage, it will be convenient to place the Patient in Bed, and give him an anodyne Draught to ease he Pain, and quiet the Ferment and Heat of the Humours.

The second or third Day it is to be dressed with Digeslive, Digestives, as, Terebinth. cum Vitel. ov. or, R Te-when prorebinth. Lot. Ziij. syr. de ros. sic. Zj. s. suc. plantag. per. olan. aa. zij. suc. apii zj. coq. ad. demid. suc. Conumpt. deinde add. farin. bord. ciceris aa. 3ss. Cruci ij. Vitel. ovi No. j. M. If there be Pain, the folowing Anodyne may be applyed over it, R. Muc. ad. & fol. Althee malv. violar. aa. toj. farin. trit. ij. ol. Rosar. Ziij. coq. ad. consistentiam Cataplasm. ddendo sub fine coct. vitel. ovor. No. ij. Croci. 3j. M but if there be no Pain, Emp. e bol. over all is officient. When it is sufficiently digested, deterge nearn and cicatrize as in the common Intentions n Wounds. Yet the Body is still to be kept souble with Clysters and Purges, to be repeated as Occasion requires, and Fontanels are to be made to rain the Blood of any ill disposed Humours 12

that may remain and hinder the part from cia-

trizing.

If in cicatrizing the Lips grow callous, they are to be destroyed with actual Cautery, before it at fects the musculous Flesh. To promote cicatrizing of these Ulcers the following Applications are commended, R. ol. Ros. ceræ alb. aa. 3. ss. suc. grant tor. & solani aa. 3ij. cerus lot. 3ij. plumb. ust. of tutiæ pulv. aa. 3ss. Thuris Mastich. aa. 3ij. M. Unguent. S. A. or, R. Unguent. Tutiæ Vigonis 3n. Theriac. Venet. 3j. Sacchar. Saturn. 3i. Suc. Gerag. s. in Mortar. plumb. M.

If a cancerous Ulcer be in the Mouth, it is ther to be destroyed with actual Cautery, or trated with palliating Medicines, according to the

Method already proposed.

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CHAP. XIX.

Of Noli me tangere.

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OLI me tangere is a small round acuminated Tubercle, without much Pain, except it be touched or rubbed, or exafperated by Applications. This Tumour fometimes happens in the Face

d Lips, as well as other parts of the Body. It small, and of a blewish Colour, without Inflamation or Hardness in the parts about it.

In the Cure of this Disease purging is necessa- The Cure. , and may be improved by adding a convenient uantity of Calomel or Mercur. Dulcis. Emulfis, and such things as temper the Humours, are o convenient, as in a Cancer. After which the mour being confumed, by actual or potential utery, the Eschar is to be dressed with Digeves, as Unguent. Basil. mag. then deterge with erc. pracip. rubr. and incarn and cicatrize with nguent. Tutiæ, confirming the Cicatrix with a few tops of Tinct. Vitriol. Dulc. in aq. rub.

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CHAP. XX.

Of waterish Tumours.

Difference and Nature of waterish Tumours.



Afterish or hydropical Tumours are to Effect of the Serum of the Bloods ther distending the Vessels, or extra sated; and according to the part at the the different Denominations I

it be discharged into the Cavity of the Belly, is called Ascites; in the Thorax, Hydrops Pectini in the Head, Hydrocephalus; betwixt the Skin a the Flesh, or in the interstices of the Muscles, A nasarca; in the Scrotum, Hydrocele. Wateril Tumours differ from ædematous, the Humourk ing thinner, and more apt to pit, but sooner ille up again, when pitted; besides, the Skin is no lucil, and glifters, and the Tumour in some ma fure transparent, whereas in an Oedema the Si varies not from its natural Colour. Ascites differ from a Tympanites; in the first the Tumour bin heavy, and the Water swagging about in the be ly, but in a Tympanum, the Tumour is light, equ and hard.

The Cause, partly from the Fault of the Vesseis.

As to the Causes of waterish Tumours, the proceed partly from the Fault of the Vessels, as partly from the Fault of the Humours; the vessels are in Fault, when by the natural Weakness the Viscera they are not able to concoct or asset the natural Juices of the Body; and first the Stomach may concur, when by its Weakness to Chymus is not sufficiently digested, but slips the it impersect; a waterish Humour instead of Chymus is not sufficiently digested.

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eing transmitted through the Lacteals into the lood. Or, fecondly, the Vifcera which are conerned in Sanguification may be in Fault, when by heir Weakness they are not able to affimilate and igest the Chyle transmitted from the Stomach and ntestins, by which means a great Quantity of Seim is heap'd up instead of Blood. Or, thirdly, e Kidneys may occasion a greater Quantity of erum to be gathered and retained, when they e deficient in separating a sufficient Quantity of erum by Urine. And, fourthly, when by the Veakness of the whole a sufficient Quantity is not orced out by the Pores of the Skin. hen the Veffels through Weakness discharge it to any Cavity in the Body, or giving way to the reflure of Humours, encourage a Tumour by their istension, whilst a fresh Quantity of Serum is aditted into the Veffels above, to supply the want of at settled in any part, or extravasated into a irticular Cavity. Lastly, the Vessels contribute, hen by large Extravafations of Blood the Vesis are empty, and admit too great a Quantity of erum.

The Humours themselves are in fault, and oc- Partly from sion a greater Quantity of Serum, than natural, the Faults be collected in the Body, when they are so lan- of the Huhid, that they are not able to supply the parts ith proper Nourishment, to strengthen their Fites, that they may retain what they ought, or pel what is superfluous, fo that the Food too on passes through the Stomach, and the weak Vessels other Parts are easily distended or broke by the Presre of their Contents. Secondly, The Humours are fault, when they are not able to supply the Ferents of the Parts with due Matter for recruiting ld continuing of them, that the parts might duly rform their Office, either in digesting or sanguify-

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ing. Thirdly, the Humours are in fault, when by their deprayed Qualities they impregnate the Chyle with their Particles, fo that it becomes unfit for Sanguification, and therefore remains in the Form of Serum. Fourthly, The Humours are in fault, when they are too gross to be separated in the Kidneys, or to pass through the Pores of the Skin. Fifthly, When by their superfluous Bull or Quantity they crowd the Vessels, and being for ced upon some weak Vessels, they either distent them and cause Tumour, or break them and form an Extravalation.

The Disenosticks.

As to the Diagnosticks, if they are external, and near the Skin, it appears of a thin pelluci Colour; but if they are so deep as not to affect the Skin, yet by shaking the part you may percein the Humour undulate. These fort of Tumous are without any confiderable Pain.

The Prognosticks.

Waterish Tumours are not mortal, unless the obstruct or taint the Viscera, for which reason in ternal Tumours are likewise more or less day gerous, according to the Nobleness of the part affected.

Intentions of Gure.

In the Cure there are four Intentions. The first respects the Regimen in Diet, and the rest the Non-naturals. The fecond is, To discharge the superfluous Serum by Stool, Urine, or Trans spiration. The third is, To strengthen the Ve sels and Humours, and restore them to their mer ser stural Tone and Crasis. The fourth is, To proster mote the Discharge of the Humour out of the nd proster which is a series of the Humour out of the nd proster which is a series of the Humour out of the nd proster which is a series of the Humour out of the nd proster which is a series of the Humour out of the nd proster which is a series of the Humour out of the nd proster which is a series of the Humour out of the nd proster of the new series of the Humour out of the nd proster of the new series part, which is to be done by Discutients, drying with Medicines, on Apertion.

The first Intention. And first, Their Diet ought to be moderate in that Quantity, and easy of Digestion, yet very streng and a thening; as strong Broths, with warm and cordinated the Spices. Their Drink likewise moderate in Quan erun tity, but cordial and strengthening; moderate in Quantity, because the Vessels are already too much crowded.

The second Intention is to be performed by The second Purging, with such Medicines as may make a good and third Discharge, which are therefore strong, as Elateri- Intention. um Gambug. Sambucin. &c. But this, as well as the third Intention, chiefly belonging to the Physitian, I shall not insist upon them in a Chyrurgical

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The fourth Intention, which is to promote the The fourth Discharge of the Humour out of the Part by Dif Intention. cutients, as, R. Sum. Abrotan. Absentb. Origan. Caaminth. Majoran. aa. M. ij. flor. Sambuc. Cham. aneth. ros. rubr. aa. M. j. Bac. Caur. Junip. aa. 3ij. og. in q. s. ag. font. f. Decoct. pro fotu. Or, Re Sal. Nitri 3v. piper. alb. 3vj. Euphorb. 3ij. ol. Lauin. 3vj. M. with which the Parts may be embroated, or the following Cerot may be applied, Re Sem. anis. Cumin. bac. myrt. Lauri. aa. 3ss. suc. Ebui ziv. ol. Rut. & cere q. f. f. Cerot. If by the lse of these and internal Medicines the Event be ot fuccessful, it will be reasonable to proceed to The Apertion. The manner of performing which, I hall hereafter lay down more fully: I shall here hard only in short represent, that the Patient being laid pon one side, the Apertion is to be made about hree Fingers breadth below the Navel, on the uper side; and when a sufficient Quantity of Serum selet out, either a Silver Canula is to be inserted, f the nd placed in the Apertion, or it may be dressed rying with a pledgit of Basilic. and Emplastr. ad herniam werall, with convenient Compress and Bandage, till attent shall be thought sit to make a new Discharge; it is not after a sufficient Discharge, the same Method ordinal dressing the Part may be repeated, till the whole Quan crum in the Cavity of the Abdomen be discharg'd. In

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Bandage

In anafarcous Tumours of the Legs, Arms of ferviceable. Thighs, good Bandage is very ferviceable, which may be made with a laced Stockin, Sleeve or Trowze by which means the Humours are preffed back in to the Veffels, and difposed, as they circulate, tok carryed off otherwise by internal Medicines. Bandage is also proposed as useful in an Ascites, to prevent the fudden Tumour of the Abdomen, but in this Cafe it feems to be less convenient, for fince the Largeness of the Tumour, by a greater Quantity of Humours collected within, only make a greater Pressure upon the Viscera, and the sangui ferous Veffels and Diaphragma, and fo proves fatal that Pressure is sooner made when the Parts have less Liberty of extending themselves.

Of Hydrocele.

Description. T Travecele is a waterish Tumour of the Scrotun It is either complicated with an Ascites of Anafarea, or fimple and original. When it joyned with an Ascites, there is commonly an A nafarca of the lower part of the Belly complicate with it. If it is an Original Tumour of the Part it is either without the Tunica Vaginalis affecting the whole Scrotum; or contained within that To nicle, and then the Tumour may happen to be one fide and not the other; but if both fides bea fested, the Tumours are distinct.

As to the Caufe of an Hydrocele, if it be con plicated with a Dropfie, it proceeds from the fan Causes, the peritonzum only being relaxed to per mit the Serum to fall into the Scrotum; but if it Original, it commonly proceeds from an Extra fation of Serum, occasioned by the Rupture of son Veffel

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effels, by a Bruise, or Fall, or some other Acdent.

As to the Diagnosticks. A Hydrocele, compli- Diagnoted with an Anafarca, is a bright, foft, and thick flicks. umour of the Scrotum, easily yielding to Imprefon, attended with a Tumour of the praputium. simple Hernia aquosa fills the whole Scrotum like Bladder. If the Tumour be within the Tunica oginalis, the Scrotum is swelled proportionably to e Bigness of that Tumour, and being not extened to its full Scope, is in some Measure wrinkled. is distinguished from a Hernia Intestinalis by presng the Production with your Finger, whilft the atient coughs; for if it be an intestinal Rupture, mething will press against your Finger like Vind.

If a Hydrocele be complicated with a Dropfie, The Progno. cannot be cured till the Dropfy is cured. If it flicks. roceed from an external Cause, it is easily cured; if the Constitution be good. If it be difficult cure, it may be let out as often as it is full, ithout Danger.

In the Cure of this, the same Rules in Diet are The Cure, be observed, as in the Chapter above proposed, nd the same external Applications, only a Bagruss is necessary to sustain the Parts, lest by the Veight of the Humour the Tumour should inrease, the Weight of the Serum contained extening the Membranes, and making way for more Vater. If the Tumour will not give way to Difutients, but tends to Suppuration, it is to be propoted and treated accordingly. If there be much Vater in the Scrotum, it is to be discharged by Apertion, pertion; but if the whole Scrotum be anafarcous, when remay be relieved by Scarification or a Seton; or quifite. the whole Body be anafarcous, the Seton is to be hade transverse in the most depending Part, and

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Rept open till all the Humour is discharged, the Part being cherished with Stupes wrung out of a Decoction of Sam. Absinth. Majoram. fl. Cham. ros. rubr. balust. bac. myrt. N. Cypress, &c. boyled in Wine, by which the Temper of the Part will be preserved, and the Danger of Mortification prevented. But if notwithstanding there be any Appearance of Mortification, the Seton is to be pulled out, that the Flux of those sharp Humours may

be stopped.

In a Hernia aquosa, if the Water be contained in the Scrotum, it is to be let out by Incision but not before a considerable Quantity of Waterly collected, left in making Incision, the Scrotum and Testicle being too close, the Testicles should he hurt. When Incision is to be made, the Patien being Placed in a good Light, the Scrotum is a be held steddy, and the Water to be pressed down to keep the Scrotum tense, and more distant from the Testicles; then Incision is to be made by Pun Eture in the most depending Part, and large enough to infert a Canula; which being done, and all the Water drawn out, a pledgit of Basilicon is to applyed to the Incision, and a sticking Plaister or it to retain the Pledgit, then apply a Stupe wrung out of an Astringent Decoction to contract the Scrotum, and a Bag-Truss to keep the Dreshing close, by which means the Puncture will in a fer Days be healed, and the Part contracted; yet will be still necessary to apply Emplast. Casari, fome other Aftringent Plaister, and a less Truss prevent a Return of the Tumour.

If the Water be contained in the Tunica Vaginalis, or a proper Cyftis, as fometimes it happens, longitudinal Incision is to be made in the Scrotum that you may have more room to discharge the Water in the Tunica Vaginalis, or Cystis, and may

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with more Conveniency apply proper Medicines to the Parts. When these Operations are performed, the Patient ought to be of a tolerable Constitution, they being subject to Inslammation and Fever, ccasioned by the constant Pain, and to the Chock, by Consent of the Nerves. To relieve these ccidents not only Bleeding and Clysters are remissive, but also Lenients and Anodynes externally; and such Fomentations as may prevent Mortisication, by preserving the natural Temper of the art.

Of a Hydrocephalus.

Throcephalus is a watry Tumour of the Head, Defeription, either betwixt the Cranium and the Scalp, betwixt the Cranium and Dura Mater, or being the two Meninges.

The Cause is an Extravasation of Serum pro-The Gause, eding from a Weakness of the Vessels, or the nantity and Qualities of the Serum; the former of easily giving way to the Pressure of the Huber, and the latter either distending the Vessels they burst, or by their glutinous Parts clog up and Glands, and distend some Vessel or another till bursts, which is very probable, since a glutinous atter is frequently sound about the Vessels under Basis of the Brain, and the Origin of the Mela Spinalis, the Nates and Tesses, and the Glanda pinealis, extending it self to the Ventricles of Brain, as Mr. Wiseman hath observed.

The Signs of Hydrocephalus, if the Humour The Diaunder the Scalp, is a Tumour of the whole. gnoflicks. the Tumour be cedematous, it easily pits, but s not fill up so soon again as if it be a waterish

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rish Serum. In the latter, the Face is swelled an pale, and the Eye-lids; and sometimes bloody an shining. In the Increase, a Tumour is thrust on much like a Wen, but appears to be full of We ter by its Fluctuation. When it lies between the Pericranium and the Cranium, the Skull is bar and the Humour sluctuates. If it be contained to twixt the Cranium and the Dura Mater, the Stures are very loose and open. When it lies under the Dura Mater, the Membrane tumisses, and often thrust out betwixt the Sutures.

The Pro-

Those that are subject to this Distemper are whealthful, and subject to Convulsions, and the Rikets which often terminate in the King's En When the Dura Mater is thrust out betwirt Sutures, it is mortal, and those next the Cranic are very dangerous. Likewise if the Tumour spreare very dangerous. Likewise if the Tumour spreare very dangerous it is more difficult to a than when it only appears in one part only.

The Cure.

In the Cure of this, the same Method, in spect of Internals, is to be observed, that hather proposed in the Chapter Of Waterish Tumour general. Externally strong Discutients are proto cherish and recover the natural Temper of Part, as well to discharge the Humour, as Sum Thym. Absinth. Majoran. fol. beton. Salv. fl. Same cham. to which may be added, fl. ros. rubr. bala sumach. N. Cypress. bac. myrt. gland. querc. gland. N. Cypress. bac. myrt. gland. querc. gland. Astringents by contracting the Skin like assisting the Expulsion of the Matter, which is be boiled in Wine or a Lixivium.

If stronger Applications are requisite, your add Sulph. viv. or alumen, or embrocate the h with the following, R. ol. Laur. aneth. aa. 3ij. d spica, de Lateribus aa. 3j. Sulph. viv. sal. com alum. ust. aa. 3s. ciner. fabar. siliquar. aa. 3ij. rebinth. Styracu calamit. aa. 3j. which with the

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dition of Wax may be made into a Cerot. Or, Repulv. summit. Origan. Absinth. fl. ros. rubr. balust. aa. 31. sal. commun. 3vj. Mel. commun. q. s. f. Cataplasm. Emp. de Beton. de Baccis Lauri, cephalic. Diapsulph. or Sinapi, are also proper. Fontanels behind the Ears, or in the Neck, are also convenient.

If the Tumour abate not by the Use of Internals Apertion, and Discutients, and Astringents, it is convenient when necession discharge it by Apertion, still continuing the Use say. If Discutients to preserve the Temper of the sarts. If the Tumour be particular, and of a long landing, and rise from a small Basis, you may make Ligature and cut it off; and if it rise from the kull, Extirpation is to be forborn.

CHAP.

CHAP. XXI.

Of the Scab and Itch.

The Diffe rence of the Caufes.



HE Scab and Itch are too well know to want any Description. As to the Cause, it chiefly depends on the praved Disposition of the Serum the Blood, but in some Bodies in some

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measure is occasioned by the particular Formatin of the Skin; and frequently is occasioned by h fection.

The Temper sbe Caule.

It depends on the depraved Disposition of the of the Blood Serum of the Blood, when the Serum is too mu fometimes impregnated with vitious Salts; by which men the natural and due Fermentation of the Blood perverted, the fuperfluous Salts depressing too mu the volatile, faline, and fulphureous Parts, fo the the Serum is not digested and rarifyed as it out to be. The Serum of the Blood being thus render ed too thick, as well as too falt, when feparate in the cutaneous Glands, is not fine enought pass off by the Pores of the Cuticula, so that the faline Humour detained betwixt the Cutis a Cuticula, acquires a further Degree of Acrimon and corrodes and ulcerates the Superficies of the Cutis, and feparating the Cutis also, forms abu dance of small Pustules, and at last, the thim part of the Serum being evaporated, the grott part united with the superfluous Salts produce dry Scab; and as new Serum is still discharge the thinnest part runs off in a Gleet, or evaporate and the groffer part along with the Salts add

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he Increase of the Scab; which Salts still corroing the Cutis, enlarge the Ulcerations.

But in some Bodies the particular Formation of The partihe Skin may be partly the Occasion; as when the cular Forlands of the Cutis are too lax and open, and mation of
parate the Serum too thick, so that it is apt to how it conbe enough to pass through the Pores of the Cu-the Cause
cula; so that the Humour thus lodged betwixt
the Cuticula and Cutis likewise grows more acrionious, and corrodes the Cutis, and forms a
cab; but in this Case the Serum is likewise too
line and thick.

When this Disease happens to be occasioned by How it is fection, there is more or less of a Pre-disposition promoted the Serum of the Person infected, since some are by Infection. ore easily infected than others, and some whose ood is very good will scarce be infected at all, s for the manner how this Disease is transferr'd Infection, we suppose as reasonable; that that line Humour which is lodged in the Skin of the rson the Infection is derived from, having aclired a greater Degree of Depravation by its Conmance there, when it affects the Skin of another rion, the corroding Salts running through the The Cause pres of the Cuticula impregnate the Serum upon of the itch. e Surface of the Cutis with their acrimonious ing Pain. rts, and affecting the nervous Papilla with their ngent Particles, cause an itching Pain, which citing Heat occasions a quicker Separation of the rum, and faster than it can be discharged by the pres of the Cuticula, so that it separates it, and les small Pustules; where the Serum impregnawith this heterogeneous Salt grows more cording, ulcerates the Cutis, and by Degrees inuating themselves through the Pores of the Vess, they communicate their depraved Qualities even to the Blood it felf; and thus by degrees the whole Mass becomes tainted with a vition Ferment, and the Serum of the Blood depraved

As for the itching Pain that attends this Di eafe, it proceeds from the Pungency of these de praved Salts affecting the nervous Papillæ of the Cutis.

Differences.

This Disease differs as the Cause is more or le violent, or as it is general or particular. The which is occasioned by Infection is not dangerous but if it proceed from an habitual Indifposition the Humours, when retained it often occasions R vers, Epilepsies, and other ill Accidents; and neglected, at the last corrupts the Blood so mu as to be fatal.

In the Cure of this Distemper, a good Diet to be prescribed, avoiding all things that are share or falt. And their Drink, if made of Mault, m be altered with medicinal Herbs, as Succory, I grimony, Pimpinel, Harts Tongue, Fumitary, & Or Be fol. Agrimon. Origani, Veronica utriufq; aa. M s. rad. enul. Camp. Scorzoner. birundinar. aa. 3 Mac. Cin. aa. 31. cag. in Cerevif. tenuis tovi l dimid.

Evacuations are also requisite, partly to discharge part of the vitious Serum, and partly to lea more room in the Veffels for Correctives to all the remaining part; and likewise for Liquors dilute the Serum, that it may the better be discha ged through the Pores of the Skin, or other co venient ways.

Blee ding mece fary.

Purging, whenrequ'sile.

And first Evacuation is to be made by Bleeding aa. which is to be repeated when the Disease is studie, fi

born, and of long standing, as occasion required Vitr.

The Serum of the Blood being attenuated at 3s.

diluted, by Liquids received into the Vessels, in the consistency of those discharged by Venesection, it will we say

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convenient to make a farther discharge by purging, to which purpose Decoct. Senna Geron, or Epithym. may be made use of: Or, Re Summit. Fumar. M. i. rad. cichor, polypod. Lapath. acut. aa. 3j. fl. trium cordial. M. fs. Epith. 3ij. fol. Sen. iij. Rhub. incif. & nodulo inclus. 3j. Liquorit. 3ij. sem. fænic. dulc. 3iij. eog. in ag. font. ad toj. Colatur. add. Syr. Rof. cum Agar. 31. 6. Mann. 3ij. pro tribus Dos. If the Body be strong, and the Humours gross, more powerful Purgatives are convenient, as Pil. ex. duob. de Agaric. Coch. Rez. Falap. & rad. Rez. Scammon. &c. which will be more effectual, if xv. or xx. Grains of Merc. Dulc. be added. t disposing the Humours the more easily to be discharged, and also corrects the Acrimony of the ill disposed Salts.

But besides Bleeding and Purging, alterative Me- Alteradicines will be also proper, and such as dispose the tives also faline Particles to go off by Urine or Diaphoresis; es-requifite. pecially if the Disease depend upon an habitual ill Crass of the Blood; proper Alteratives are antiforbutick Electuaries and volatile Salts, which atthem thin enough to pass through the Kidneys, or the Pores of the Skin; also a Decoction of Sarsaparill. Lign. Guaj. Saffaphras. fant. rubr. Citrin. or alb. Rof. Eb. CC. &c. may be conveniently drunk Night and Morning in Bed, which will dispose the Humours attenuated by Evacuation, and Alteratives,

to go off by Diaphoresis.

External Applications, proper in these Cases, What Exare of several kinds, as R rad. enul. camp. Lapalt. ternals are diff a. Zij. rad. bryon. Zj. Sum. fumar. abrotan. aa. M. profer. ftw ij. fl. ros. rubr. M. j. cort. granat. Sumach. aa. Zs. iires. Vitr. alb. Ziij. Sal. petræ Zij. alum. Sulph. viv. aa. d at Zs. coq. in aq. font. toiv. Colat. pro fotu, which in the consisting chiefly of Astringents and Discutients, we suppose that the Astringency binds up the excre-

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tory Veffels of the cutaneous Glands, fo that the Scabs are perfectly dryed up and fall off, while the discutient Medicines prevent Obstructions in the Vessels of the Cutis, (which might be occasioned for want of a due Separation of the Serum in the Glands,) by rarifying the Humours fo that they might pass more freely through the Veins After the use of the Fomentation one of the following Ointments may be made use of: By Un. guent. Rosat. Ziij. Balf. peru. 36. arcan. coralin. 3ij. Or, Re Sev. agnin. Biv. ol. amygd. Dulc. pa pav. aa. 3j. ol. byoscyam. per express. 3ij. Ung. 74. tiæ Vigonis 3j.s. alum. ust. zinzib. aa. 3ij. Oliban. 3j. Croci Bij. ceræ q. f. which by their balfamick and drying Qualities heal the Ulcerations of the Cutis, and promote the Generation of a fresh Cuticula. How Balfamicks are beneficial in healing of Ulcers, and the reason why Astringents di catrize, shall be explained in the following part of Ulcers.

In strong Bodies, and where the Humour is stubborn, Mercurius Vivus with Axung. porcin. or Unguent. alb. may be convenient, which may be made more grateful by adding a few drops of Opl of Rhodium; but Care must be taken to purge after the Use of Mercurial Oyntments, to discharge the Serum impregnated with the Mercurial Particles.

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cerot. The Oyntment and the Wax cool the extraordinary Heat and soften the crusted Parts, as well as stop the Evaporation of what transpires, whilst the Spices warm the cutaneous Glands, and cause them to discharge a greater Quantity of Serum, by which means the vitious Salts are dissolved, and the crusted Parts moistened and relaxed again.

If the Disease will not yield to the forementioned Means, a Decoction of Sarsaparill. Lign. Guajacum, Sassaphras, sant. omn. Ras. Eboris, C.C. Liquorit. &c. will be necessary, which may be used for Common Drink, purging frequently as occasion requires, and repeating the Use of antiscorbu-

tick Alteratives betwixt Purging.

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CHAP. XXII.

Of Lepra or Elephantiasis.

Description.



the Itch, where the Scab grown dry, and breaks out in the Form of white Scales, sticking one to a nother; if they happen to be pulled off, which is with Difficulty,

the Skin appears red, and they foon return's

gain.

The Cause.

In this Disease the Serum of the Blood is we ry much impregnated with a vitious Salt, fo that the Blood is not able to digeft and attenuate it fufficiently, the crude faline Particles depreffing the more volatile, and preventing them from ex erting themselves, by which means the Serum is not only too thick by the Mixture of too much Salt, but also its own Crudity. The Serum thu depraved, as long as it continues in Circulation by a constant Agitation of its Parts, retains it Fluidity; but when separated by the Glands of the Skin, and being too thick to transpire through the Pores of the Cuticula, for want of its usual A gitation it presently grows thick, and the thinnel Part evaporating, forms a dry falt white Scab, the faline Humour pricking the nervous Papilla, and causing an itching Pain; being very troublesom and difficult to cure.

The Cure.

In the Cure, the same Internals are requisite as in the Itch, only Purging is to be repeated even third or fourth Day, or as oft as the Strength of

the Patient will permit, with a convenient Quantity of Calomel, which if given in a Bolus over Night, may dispose the Humours to go off the bet-

ter by Purging in the Morning.

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Externally Fomentations are proper, which may be made of the following Ingredients, as fol. & rad. Althee. lapath. acut enul. Camp. bryon. fol. Scabios. Majoran. fumaria, bac. Laur. Junip. sem. Staphifagriæ sinap. alumen. or Vitriol. Hung. by which the Scab is made more dry and apt to fall off, the Allom and Vitriol adhering to them, whilst the emollient Discutients, by their warm and penetrating Effluvia, heat and increase the natural Ferment of the Humours in the Cutis, and cause a greater Quantity of Serum to be separated by the Glands, which helps to separate and cast off the Scab, by interposing betwixt it and the Skin.

After Fomentation Mercurial Oyntments are proper, as, Unguent. enulat. cum Mercur. or axung. 3ij. Mercur. viv. 38. Misceantur probe mortar. Vitreo. addend. ol. Rhod. gut. x. by which the vitious Salts are not only corrected in the Glands of the Skin, but the Serum attenuated, and separated more plentifully, and the Scabs also loosened by

the greafy parts of the Oyntment.

If by frequently repeated Evacuations, and the salivation, Use of Alteratives internally, and Medicinal Diet when ne-Drink, &c. the Disease is so stubborn as still to cellary. continue, it will be convenient to cleanse the whole Mass of Humours, by a continued Salivation; which may reasonably be raised, partly by Internals, and partly by Unction. For if it be begun by Internals, the gross Humours contained in the Mass of Blood will be more easily disposed to go off by Salivation, before the Salts lodged in the Cutis are mixed with them, but when Sali-

K 4 vation vation is begun, and the Serum of the Blood a little cleanfed, by external Unction the vitious Salts in the Cutis will be more readily diluted, and the ill Ferment lodged in the Glands of the Skin corrected, so that there will be less Danger of a Relapse. After Salivation, Purging will not only be necessary, as in other Cases, but also Diaphoreticks of Sarsaparil. Lign. Guaj. &c. Sassaphoras. rad. Chin. Sant. omn. Rass. C.C. Eb. Liquorit, &c. the first cleansing both the Stomach, Intestins, and Blood of the Remains of the Distemper, and the Mercurial Parts; and the latter, by Diaphoresis, washing out any vitious Ferments that may be lodged in the Glands of the Skin, or betwixtin and the Cuticula.

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CHAP. XXIII.

Of a Gutta Rosacea.



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Gutta Rosacea is a Number of pescription hard Pimples or Tubercles affecting the Face in several Places, as the Brows or Nose, with a fiery itching Pain; if scratched they look red and increase.

It is occasioned by a gross hot Serum which ob- care, ructs and tumifies the Glands of the Cutis, by which Tumours the nervous Papillæ being compressed, produces an itching Pain. This Disease hapens commonly to those that not only inflame their blood by Drink, but also by disordering the natual Ferment of the Stomach; for want of true Disestion, Crudities are heaped up in the Mass of blood, which being thickened in the Glands of he Cutis in the Face, by the external Air to which hey are exposed, it distends their Vessels and tunifies them, whilst the hot Humour that attends his Phlegm, affecting the nervous Papillæ, (which re likewise compressed by the Tumours) causes a ushing Heat.

The Signs of a Gutta Rosacea, are a flushing The Dialeat, with red Pimples and Tubercles, which in gnosticks. me become blewish, or of a more dark red Cour.

This Disease is hard to cure in the Beginning, The Property of Phlegm which tumifies the Glands being ren-gnosticks. cred tough by the hot Serum it swims in; and if they be of long Continuance, grow large; adventitious

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in a Varix. When they grow big, Excressence rise from them which are never removed.

The Method of Cure.

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In order to the Cure, a regular Diet is to be observed, which is to consist of such things as an of easy Digestion. Drinking is also to be regulated, forbearing such Excess as may inflame to Blood, and pervert Concoction in the Stomach, over-heating and destroying the natural Ferment.

the Veins, does betwixt the Veffels and Coagulus

By Inter-

But besides a due Regimen in eating and dring, Evacuation by Bleeding is convenient; an after that, lenient purgative Apozems, as, Refile Cichor. Acetos. ãa. M. j. sennæ 3iij. Tamarind, fl. trium. cord. ãa. P. j. Liquiritiæ 3ij. sem. sum dulc. 3j. coq. ad 3iv. in Colatur. dissolv. Rhei, aq. Cichor. infus. 3j. syr. Ros. solut. 3j. ss. aq. ca cochl. j. M. Or, R. rad. oxylapath. acetos. Cicho graminis ãa. 3j. fol. endiv. famar. dent. leon. cap Ven. ãa. M. j. sem. quat. frig. Maj. ãa. 3iij. L quirit. 3 ss. sennæ 3ij. Tamarind. 3j. Galang. 3 Sant. citrin. 3j. coq. ad tbj. Colat. adde Expression 3 ss. rhab. in prædict. decoct. syr. de pomis purg. J. f. Apozem.

When Evacuation hath been made by Bleedin and Purging, convenient Alterations are to be ma use of to restore the Blood to its natural Crass as Chalybeats prepared with Tartar and cools

Antiscorbuticks.

What is to be done externally.

As to Externals, if the Face at the first be of affected with a slushing Heat, and some small Proples, Decel. Malvæ, bismalvæ violar. sem. Verbapsylli, &c. and a Posset made of the Juice of Lamons may be sufficient; the emollient Discution fostening and dissolving the Matter of the Tumos

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nd the other contracting the Parts to promote its xpulfion, and to confirm the Tone of the Parts. ut if the Tubercles are of longer standing, and ard, stronger Emollients are to be used, as, rad. gil. solom. cucum. agrest. rad. lil. sem. lini, fænug. &c. r Cerot. de Althææ may be applyed. And if they ippurate, discharge the Matter by opening them, nd then deterge and cicatrize, using the following fmooth the Skin: Re Camph. 31. ol. amygd. dulc: iii. M. in Mortar. deinde add. ol. Tart. per delig. ij. Vitel. Ovor. No. ij. Sacchar. Saturn. 3fs. aq. flor. bar. figil. folomonis aq. Rof. aa. Ziij. or lac. Virgin. ous made. R Lytharg. auri 3iij. acet. opt. tbj. coq. dimid & colat. add. salis com. in aqua font. sot ziv. aq. Rosar. zvj. Sal. Armon. zj. M. By the le of which Astringents, the Glands of the Skin e all equally contracted, so that the Cuticula lies nooth upon it; and the Fibres of the Veffels are fo strengthened and contracted to their natural one, fo that the Parts are not fo subject to receive fresh Influx of the Humours, if any should yet main in the Mass of Blood.

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CHAP. XXIV.

Of Flatuous Tumours.

Def. ription.

Differences.

Mphysema is a light puffy Tumou easily yielding to Pressure, and so rising again.

The Differences are, either as the are pure, proceeding only from Win

or mixed with a phlegmatick Humour; they difficult also as they are internal or external: Internal they come under the Care of Physicians; Extendibly they happen upon the Eye-lids, and about the Joynts, and other membranous Parts, as a Scrotum and Navel, where they form a Hern Ventosa, the Peritonaum being first relaxed, and not timely prevented, a Hernia Intestinalism success.

The Caufe.

As to the Cause, it evidently appears to be windy Vapour, which is occasioned by a Ferment tion of the nitro-fulphureous Parts of a crude H mour, which by an accidental Ferment are rail ed and expanded, and assumes the Form of a W pour; the fulphureous Particles being first put to Motion by some accidental Heat, are by the Motion inclined to separate themselves from one nother and fly away, but being confined by the trous Parts, their Motion is reverberated and flected by that Resistance, by which means they quire the greater Force; as the fubtle fulphured Parts of Fire, endeavouring to extend their Spher are struck back and confined by circumambient Col and so the internal Heat is increased by a Reve beratio

ration of those subtle Parts, which in open Sunne, or warm Air, where there is little Nitre to ift, they easily diffipate themselves and fly a-Now the fulphureous Parts of this Liquor ing beat back, and acquiring greater Force, degrees rarify and expand not only themselves, the nitrous Parts also, and a thin Vapour exnds the membranous Parts, which eafily give way them, and fo form the Tumour. Thus in the ring, when by the Heat of the approaching Sun rm fulphureous Vapours are mixt with the nious Parts of the Air, they ferment together, and casion violent windy Expansions; and the like ppens in Autumn, when the nitrous parts of the begin to involve and check the hot fulphures parts of the Air, which they are not able to der from expanding. This accidental Ferment the Body often happens to be excited, and first red up, in a Humour aptly predifposed, by the tural Heat of the Body; and often by an exter-Accident, as a Blow, by which the Part acires an additional Heat, and also weakens the rts to give way, as well as incline, a predifpo-Humour to exert it felf.

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These Tumours, if external, neither discolour The Diagno-Skin, nor are painful, except they affect the flicks. riosteum, and lie deep amongst the Muscles; but eir Increase is always sudden, and likewise their minution.

Flatuous Tumours of the great Joynts are very The Proficult to cure, and not to be opened without a gnofficks. eat deal of Caution; but those which affect not e Joynts may be opened any time, and are easily red.

In the Cure Internally, purging Medicines may The Cure. convenient, and fuch Alteratives as may streng- Internally. en the Stomach, and help Digestion, and like-

wife

Part wife corroborate the Crasis of the Blood, that Serum being better digested, may digest those com Parts which are subject to create windy Expansions.

Externally.

Externally fuch Applications are proper as m disperse, and digest the nitro-sulphureous parts that Vapour, and by feparating their Parts, put end to their united Expansion, as sum. Majoran, brotan. by sop. origan. Rute rorismarin. bac. La Junip. sem. anis. fætic. carui, cymin. &c. with whi Fomentations may be made in a Lixivium or Wi or the Part may be embrocated with the following R ol. Rut. sambuc. cham anethi aa. 3j. ol. Marjo Carui. aa. 3j. M. or, ol. Julph. Terebinth. Empl. de bac. Lauri, Cymin, &c. may be applied; or, fæcis ceræ nov. toj. 6. migæ pan. furfurac. tol. rof. rubr. 3j. coq. in vino albo deinde contund. 6 piper. caryophill. zinzib. aa. 3ij. S. fem. Anis. cym fænic. ammeos, aa. 3B. ol. Cham. Aneth. Rut. aa. M. f. Cataplasm. These warm Discutients separa and divide the nitrous Parts by their fubtle Efflui and fo disperse them. But if by cold Application and good Bandage, you condense and compr these Vapours, the Tumour soon disappears. I if the Tumour be in a Part where it may be a the speedyest way of Cure is by opening it. Ist Tumour grows painful and inflamed, Anodyness to be made use of.

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CHAP. XXV.

Of Hernia.

Ernia is defined to be a Tumour made Definition.
by the Interpolition of a folid Body,
as when the Omentum or Intestins
are interposed betwixt the Coats of
the Peritonæum and Scrotum, or other adjacent Parts.

If the Rupture be at or near the Navel, by an Differences. Atension of the Peritonaum, and the Tendons of the oblique and transverse Muscles, it is called comphalos; but if the Omentum or Intestins I down into the Scrotum, that Tumour is proply called a Rupture: But other Tumours, from the cir Likeness, are called by the same Name, as ternia aquosa, which is occasioned by Water; ternia Carnosa, which is a Sarcoma; Ventosa, om Wind; and Varicosa, being a Tumour of the orpus Varicosum.

But Hernia Scroti and Exomphalos, being most operly called Ruptures according to the Definition, I shall here only consider them. And first, when the Omentum or Intestines fall quite down to the Scrotum, it is called a perfect Rupture, at when they fall only part of the way, it is cald a Relaxation; the Peritonaum being as yet hole, and only extended.

As to the Cause of a Rupture, it may be occa- The Cause. med several ways. In Children it often happens when we will be read to the reach the arts being tender and moist, so that they easily

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give way to the Weight and violent Pressure of the Guts. In People of riper Age and grown Bodie it may be caused by hard Exercise, Riding, La ing, Vaulting; Hallowing, carrying of any gre Weight, or by a Blow or Fall, or any other cident that may force the Intestines too violent upon the Peritonzum, fo much as to extend break it, a Rupture always following a Relaxation of that Membrane. In very fat People the Weigh of the Intestines sometimes is the Cause of a Ru ture. In Women, often hard Labour is the On sion of a Rupture in the Groin, which is for thence called Bubonoceles.

The Diagno-Sticks of a Hernia.

The Signs of a Hernia, whilst it is only all laxation, is a foft Tumour in either Groin, or a other Part of the Belly, without Inflammation This Tumour foon shews it felf if the H tient stand, but if he lie down some time on Back, it presently disappears again.

malis.

The Signs of a Hernia Intestinalis, when mia Intefti- Rupture of the Peritonaum is made, are a fudd Tumour in the Inguen or Scrotum, by the falling down of the Intestins or Omentum. If a Blown Fall was the Cause of it, it is painful, and som times Blood is extravasated. This Tumour may distinguished from a Hernia Carnosa, by laying your Hand upon the part where the Peritonal passeth out of the Abdomen, the Patient coughing or fneezing, for by that means the Motion of the Gut will be perceived. In Women, if this Difa be neglected, it forms a round Tumour near the Pudenda.

Talis.

In a Hernia Omentalis, the Tumour is unequa mia Omen- foft and flippery, and always of the fame Bignes as the Patient is full or empty, a painful Cholic pane attending refer whereas in a Hernia Intestinalis it is greater or le

ttending it, and if not relieved in due time, a Fe-

er and Vomiting.

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Hernia Umbelicalis is apparent, by the Protube- Of a Hernia ance in the Navel; whether it be intestinal or o- umbeliesnental, and may be distinguished the same way, as visn the Scrotum.

Hernia Ventosa affects the Belly in several Pla- of a Hernia es, and may be known by the Quickness of its In- Ventosa. rease. It is common in Children, the Wind lyng betwixt the Tunica Vaginalis, and forming a fumour either long or round, as it is confined to he Cavity which contains the Testicle, or extends

felf to the Production.

A Hernia, by Relaxation, is less dangerous than The Progno. hen it is confirmed by Rupture. In Children and flicks. oung People under twenty it may be cured, if reuced in time, but in old People it is only to be lieved by a Truss. If it be long before it is reuced, violent Pain, Cholick and Fever; and by opping the Passage of the Excrement, at last, Inimmation, Gangrene and Death enfue. But if the upture he large, and of long Continuance, the acrements pass freely through the Intestines withat any ill Symptoms.

Hernia Umbelicalis, if neglected, is attended ith the like Accidents as that in the Scrotum.

A Hernia Omentalis is not dangerous, but hard of the g foft and flippery. In Children and fanguing g foft and flippery. In Children and fanguine onstitutions it is easily cured, especially if the Tuear the our be small, and only in the Inguen.

A Hernia Ventosa is more easily cured, especial-

in Children, who are most subject to it.

In the Cure of a Hernia we are to consider, first the Cure.

or le hether it be intestinal or omental, also its Conticholic lance, and whether it be only a Relaxation or a
tendir rect Rupture.

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Reduction. and what Applications are proper afterwards.

If the Intestines be fallen down into the Scro tum, the first thing to be done is Reduction; in order to which, the Patient is to be placed upon his Back, with his Head downwards, and his Hips raised up, drawing his Heels towards his Hips; then with warm Cloths moderate Pressur is to be made, and gradually; Care being take neither to hurt the Intestines nor the Testicles. I the Excrements in the Intestines hinder the Redu ction, the following Clyster may be given, R ra & fol. Althee, fol. malv. bet. parietar. aa. M.j. Cham. melil. sambuci aa. M.ss. sem. Lin. fænugra āa. 3vj. sem. anis. fænic. āa. 3j. coq. ad tertias, 0 lat Zviij. dissolv. Sacchar. rubr. Zij. mel. rofat. Cola Diacatholicon aa. 3]. Hiere picre 3vj. ol. Cham. lior. aa. 3ij. Sal. commun. 3ij. M. f. Enem. which is to be repeated as oft as convenient, till the la testines are empty'd; applying Stupes wrung ou of the remaining part of the Decoction, and, the Faces are very hard, the decosted Ingredient may be applyed in the Form of a Cataplasm, with exung. porcin. Unquent. de Althee, or ol. lil. &c If flatuous Vapours hinder the Reduction, the Par is to be fomented and embrocated with Discutients The Intestines being thus emptyed, and the Rup ture reduced, the next thing to be done is to a ply proper binding Agglutinatives to contract an confirm the Parts relaxed in the Rupture, as, Em ad Herniam, or B. Mastich. Thur. Aloe, Sang. Dr. con. farfacol. bol. Armen. gypf. gallar. aa. 3ij. ichthy coll. & taurocoll. in aceto solut. aa. 3ij. malaxa tur. & f. Emplast. which being applyed with good Truss, may keep the Intestines up, and the be dene af. Rupture firm, whilft the relaxed and rupture Farts adhere and agglutinate. r dru

ter Reduternal Aptlications.

The Rupture being thus reduced and fecured proper ex- in order to the Cure the Person is to observe a co

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enient Diet, and a due Regimen in the way of Living. Their Diet ought to be fuch as may aford good Nourishment, and not subject to breed trudities, and sparing in Quantity, that the Inteines being neither too much crowded with Excrenents or Flatulencies, may press the less upon he ruptured Parts. Their Drink ought also to be ood, and fuch as may help Digestion, and preent Crudities.

Rest also is convenient in this Case, there being he less Pressure made upon the Part affected. Exrcise is also to be forbid for the same Reason, for he Body being in an erect Posture, the whole Weight of the Intestines must needs force upon the Supture, and hinder the Parts from uniting. ody is likewise to be kept open with Clysters, hat there may be the less Occasion for straining then the Patient goes to Stool. If the Body aound with crude and indigested Humours, purgeig will also be necessary to discharge them, that he parts being kept clear and free of Crudities, hay the better be disposed to unite again, and grow rm and strong.

To promote the Union and Contexture of the Aggluina. arts again, Agglutinatives are to be made use of, tives inwhich are simple or compound. The simple are ternally, ich as have a moderate Aftringency, as Confolid. requisiteaj. & min. quinquefol. Equisetum, sanicula, auriula Ursi, pilosebla, gacea utrisq3 sigil. solomonis,

ormentil. Osmunda Regalis hippoglossum, lunaria mi-

or, perfoliata, herniaria, Herba Trinitatis, cort.

laxa sypress, Granator, &c. Osmunda Regalis, Hippoglosm, and Gomfry Roots, herniaria and perfoliata are
fleem'd as specifick in this Disease, and may be
ither given in Powder, or mixed with red Wine,

r drunk as Tea.

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Compounds may be made use of as followeth. Be Conf. rof. rub. symphit aa. 3j. fol. salv. acori aa. 36. troch. de Carab. vel de Spodio vel de Bol. 3iii cum q. f. fyr. de rof. fic. f. Elect. Cap. 9. N. Mosch boris medicinalibus, drinking fix Ounces of the fol. lowing after it, & Herb. Alchimil. ophiogloss. num. mular. fragror. Auric. Muris, Veronica, Artimife Scolopendriæ perfoliat aa. M. j. Virg. Aur. M. j. rad. tormentil. cichor. bistort. vincetoxit. hirundina, aa. 3). perfeliat. 31. cort. citri 3j.f. fem. Anif. fe. nic. aa. 3iij. Coriand. prep. Cinam. aa. 3j. flor. b. rag. buglofs. aa. 5ij. prunel. Sylveft. 3j. B. Galang. 31 passul. enucleat 3j.fs. M. infund. in q. S. Vini optim Colat. reservetur pro usu; which by their Astrin gency incraffate and dry up the superfluous Sem fities, and dispose the Parts, not over-burthened with superfluous Moisture to grow together and al here the better.

Incision, when requisite, in order to Reduction.

If a Rupture, by the long Continuance in the Scrotum, cannot be reduced by the before-mention ned Methods, the Intestines being too much distrided with Fœces or Flatulencies, fo that the Lin of the Person be in Danger, it may not be unto fonable to lay the Production of the Peritonaum pen whilst the Patient enjoys some Strength, and able to bear it. In Order to this, the Patient to be laid flat upon his Back, and bound down then Incision being made upon the upper part the Scrotum to the Production, that is also to divided, Care being taken neither to hurt thela testines nor the Omentum; then pass a Canul into the Cavity upwards, under the Process of the Peritonaum, clear of the Intestines, and make a Incision large enough to put your Finger into the Scrotum, to raise the Intestines and Omentum which are then to be reduced into the Cavity the Abdomen. This being done the Wound mu

be stitched up, taking so much of the Production up as may hinder the Relapse of the Intestines, and then dress up the Wounds with Agglutinatives, as, Bol. Armen. Sang. Drac. Thus, Aloes, cum alb. wi. then dress with the following Digestive, R. Vitel. ovor. No. ij. farin. tritic. Thuris aa. q. s. after deterge with Mundif ex Apio, and incarn with the following, R. Terebinth. sic. iii. Thuris Mastich. m. fanugrac. aa. is. cera i. ol. hyperic. 3x. M. and then cicatrize.

A Bubonocele in Women is to be cured, after Of a Bubo-Reduction by Plaisters and Bandage, as in Men.

A Hernia Umbelicalis is likewise to be reduced, of a Hernd then retained with Agglutinatives and Bannia Umbelage. If for want of Care in time the Skin grows licalis. hin and mortify, dress accordingly, and after the separation of the Eschar, stick the Peritonaum lose with the Ulcer, and then digest, incarn and icatrize, assisting the part afterwards with good landage.

In Children Ruptures are easily cured, if Care of Rupe taken to keep on their Trusses, applying Emp. tures in d Hem. and de bol. over the part with compress; Children. aving a due regard to Temperament of the Boy, which being in Children naturally too moist, to be obviated by proper Internals as above di-

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CHAP. XXVI.

Of the Hamorrhoids.

Tumours of the Hamorrhoids.



of Varicole Aving treated of Varicole Tumour in general, above in the Chapter Varix, we shall proceed to the which more particularly belong to certain Part, viz. the Varicose Tu mours of the Venæ bæmorrhoidale

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these Vessels sometimes only tumify and extend, by fometimes they break and void Blood. The Vell subject to these Tumours are either internal org ternal: The internal are the hamorrhoidalis internal which receives the Blood from the Rectum, a Parts about the Anus, which is brought there the Arteria mesenterica inferior, and this is the Ve which is so frequently subject to bleed; the exten is a Branch of the hypogastrick Vein, and receive the Blood brought to the Anus and Muscles of Rectum.

The Caule, zion of the Humours.

As to the Cause, they depend either on the either from tural Weakness of the Parts, which makes the the Diposi apt to give way to the Impression of Humours, on the ill Temper and depraved Disposition of Humours themselves, by which the natural Tem of the Parts is destroyed, and the Fibres relaxed fo that they give way to the Impression and Reco tion of those Humours which are not only super ous in Quantity, but depraved and vitiated in Q lity. If these Parts happen to be weak, and parts of the Blood and Serum gross; they are sub to Tumour, but when those Humours which

upon the Parts are impregnated with sharp and acrimonious Parts, they not only weaken the Fibres, but corrode and make a Solution of Continuity in the Capillary Vessels, and cause an Extravasation, so that the Vessels frequently bleed.

But besides the Grossness of the Blood, and A- or the crimony it sometimes acquires, which cause a Tu-Weakness mour or Extravalation. These Accidents may be of the Vefpromoted, and the Parts rendered more lyable to fels. fuch Difeases; first by the Laxity and particular Structure of the Parts; these Vessels being not equally supported by the Compactness of the adjacent Vessels, which makes them more subject to give way to the Pressure of the Humours contained in them. Secondly, The Blood is more apt to distend the Vessels, they having no Valves to support the Weight of Blood, and hindering it from pressing upon the Extremities of the Vessels. Thirdly, The natural Moistness and Laxity of the Parts by a constant afflux of Humours, makes the Fibres of these Vessels less able to resist the Influx of the Humours contained in them, for which reason they are apt to grow loose and spongy. Fourthly, the Weight of the Intestines, pressing upon the Veins of the Mesentery, obstructs and hinders the afcent of the Blood, which not only makes them more apt to turnify, but the Veins not readily discharging the Blood, or receiving it from the Arteries, there is the greater Force of Humours upon the Extremities of the Veffels, by the Force of arterial Blood, which make them more apt to give way to Extravasation or Tumour.

When the Coats of these Vessels, by a constant Flux of Humours, which by their Groffness obstructs them, and by rendering them lax and apt to distend, promotes that Tumour, grow thick

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and spongy, the acrimonious Particles of the Blood infinuating themselves into the Pores of the Vessels, fret and weaken their Fibres, so that at last they give way to the groffer Humours; while the tumifyed Veffels themselves appear blewish, and like a Bunch of Grapes.

These Varicose Tumours of the Hæmorrhoidal Vessels differ, either essentially or accidentally, They differ effentially; First, As the Vessels them. felves are only tumifyed, or as they are attended with a Tumour of the Parts adjacent, or the Adhesion of some adventitious Substance. S. condly, As they are only tumifyed without Bleed. ing, which are called Hamorrhoides caca, or a they not only tumify and distend, but open and bleed, which are called Hæmorrhoides aperta They differ accidentally, according to their Bigness, Number and Figure, or as they are periodical or uncertain.

The Diagnosticks.

As to the Signs of these Tumours, they are apparent of themselves, it being evident to fight whether the Tumour be a Vein distended, or of any other kind; and it is manifest whether they be caca or aperta by their bleeding or not bleeding.

The Prognosticks.

When the hamorrhoidal Veins bleed moderate ly, they are wholesome, and prevent several Distempers by discharging gross seculent Bloods but if they flow immoderately, they make the rid Person weak and faint, and subject to a Cachesia Sv Person weak and faint, and subject to a Cachexia or Dropfy, &c. whence it is dangerous to provoke them lest they flow too much; and of ill Confine fequence to stop them, lest distempered Humour efo be retained.

If the Hæmorrhoides Cæcæ are painful, and not ucil timely remedied, they are dangerous, lest by a E Flux of Humours Inflammation and Apostemation be occasioned. Those near the Neck of the Blad green

der are also troublesome, occasioning frequently

Inflammation and Strangury.

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In the Cure of the Hamorrhoides Caca, fince The Cure, they are occasioned by Cocochymical and ill de-with rebraved Humours in the Blood, a convenient Diet spect to the s in the first Place to be observed, which is to be Humours regulated according to the Temper and Disposition within. of the Humours in the Body affected with them; and since the Humour is impregnated with hot and crid, as well as gross Parts, their Diet ought to e fuch as may attenuate and dilute, as well as ool and moderate, the inflammatory Humour. and fince those that are troubled with this Disease re subject to be costive, which makes it both roublesome and painful voiding Excrements, they ught to make use of such things as may incline nd dispose them to a contrary Disposition, which it cannot be done by Diet it is to be promoted y Clysters of such Ingredients as are emollient and laxative. All salt and sharp things are to be fight voided, which would add to the Acrimony of the lumours flowing to the Part, and render them ey be sore painful. And as there ought to be a due legimen in Diet, so their Drink ought also to be gulated as the Circumstances of Nature indieveral ste; and since the Humours which inflame the
lood; arts are acrid and hot, it ought to dilute those
e the rid Salts, and dispose them to go off by Urine
chexia : Sweat; to which purpose a Decostion of Sarsapropropropril. Guaj. ac. &c. may be made for common
Conrink, or by mixing suc. Lig. or such like with
mount be foresaid Ingredients, those lenient Pectorals will
of only above the Acrimony of the Humour, their ot only abate the Acrimony of the Humour, their by a e Edges of their sharp Parts, but will likewise twent the Body from being costive, whilst the other Blad gredients carry off the hot diluted Salts by Diapho-

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Diaphoresis, and prevent their afflux to the di feased Part.

The Humour being thus checked by proper Diet, and the Body kept open by Clysters, hasten the Discharge of this acrid Phlegm, which affects the part, lenient Purgatives are also conve Revulsion is also to be made, and the Vol fels emptyed by bleeding, to prevent or abate la flammation.

With rezernals.

External Medicines proper in these Cases, bell to Ex- the Tumour be external, are fuch as by their stringency contract the parts, and by that men not only repel the Humours already lodged in the part, but also prevent the influx of more, as, I fol. Plantag. polygon. summ. rub. equiset. aa. M.j. Verbasc. M. ij. sem. lini. 3ij. fl. ros. rubr. Cort. Gi nator. balust. myrt. aa. zvj. coq. in q. s. aq. font, fomentatio. After the Use of this Fomentation apply a pledgit of Unguent populeon. cum pulv. uft. which is to be renewed twice a Day.

If the Pain be very violent, it may be relien To eafe the by Emollients and Anodynes, as, & fol. malv. Pain. basc. M. j. fl. hyperic. M. ss. Rad. Cynogloss. sem. lini. fænugr. aa. 2vj. sem. Althææ 31. cog.

Fot. or R ol. hyper. 3j. Op. gr. viij.

If the Piles be internal, emollient Clysters What is to be done proper to ease their Pain, and to discuss the when they mour where Repellents cannot be conveniently are interplyed. nal.

When the Humour which produces them Discutients, when thick and viscid, Discutients which separate nece Jary. divide its parts, and render it apt to be diluted fresh Serum, are to be made use of, as rad. C don. Gladeol. capa allium. &c. in the Form of

mentations.

If the forementioned Applications are not Aftrinctual, stronger Astringents mixed with Discutt gents proper.

will be proper, to disfolve and attenuate the Humours contained in the relaxed parts, whilft the Aftringents contract the diffended Fibres, and contribute to recover their lost Tone, as Bol. Armen. Calx lot. Croc. Mart. alum. axung. porcin. &c. If the Piles be external, and are not to be relieved by any of the above-mentioned Medicines, and are confiderably large and pendent, they may be cut off.

The Hamorrhoides Aperta are not to be stopped what is to as long as the Patient bears their Discharge with- be consider out weakening and impairing his Strength, fince red in the they discharge a gross phlegmatick Blood which Hamormight occasion other Diseases; but if they flow thides Anot in a sufficient Quantity they are rather to be provoked, by fuch things as stimulate the Rectum, and fret the Extremities of the Vessels, as, Aloes. Scammon Colocynth. &c. Or, R fellis Bovin. 3j. aloes Sij. acet. acerrim. Zij. M. pro Injectione; or, Re pulv. Colocynth. Ziij. amygd. amar. Zj. mel. despumat.

Bij. f. Suppositorium.

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When they are apt to bleed immoderately, the Acrimony of the Humours is to be corrected by a regular Diet, and Revulsion is to be made by Bleeding, Cupping, and Ligatures made on the remote parts; the depraved Crasis of the Blood is also to be corrected by internal Medicines, and thickened and incrassated by altering the Disposition of the Humours, and depressing the Ferment of the Blood, by Juleps sweeten'd with Syrup. de Suc. Ciiluted tormentil. lap. hæmatitis, sang. Draconis, troch. de ad. comparties commentil. lap. hæmatitis, sang. Draconis, troch. de terra Lemn. C. C. nst. bol. armen. may be likewise m of given, made up into the Form of an Electuary, with any of the before-mentioned Syrups, adding not Gum. Arab. pulv. or Tragacanth and Olibanum, or, iscuti & Croc. martin astring. Dj. Diascord. 313. M. Theriac. Venet.

Venet. Laud. &c. are also convenient, Opiates checking the preternatural Ferment of the Blood, and disposing the Humours to go off by Diaphores fis, whilst the Astringents and gummy Medicines thicken the Blood and Serum. Astringents are also to be applyed externally, as, Cort. granator, pulv. balust. Thus Mastich. N. Cypress. gallæ gum. tragacanth. &c. made into the Form of Suppositories with the White of an Egg; or they may be externally applyed on pledgits of Tow; or ol. Tembinth. may be either injected, or pledgits dipped in it applyed externally.

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CHAP. XXVII.

If Fungous Tumours or Excrescence about the Anus, viz. Condyloma, Ficus, Cristæ, Thymi, &c.

HE parts about the Anus are subject to several sungous Tumours or Excrescences, which from their Similitude to different Things are called by different Names.

round Tubercle distending the in-of a Condyround Tubercle distending the in-of a Condyroal rugous Coat of the Anus, without Pain, loma. Alteration of Colour in the Cutis, and as it creases it grows carnous. If it be prolonged, of a Ficus? d grows pendent resembling a Fig, it is called

Crista are hard Excrescences, which rise in the of crista.

orm of a Cock's Comb, something distant from

e Verge of the Anus, and are usually Symptoms
the Venereal Distemper.

Thymi are hard Excrescences, somewhat like of Thymiarts, which grow much like the tops of the rib they take their Name from; some of which benign, others malignant and cancerous. ere are a softer fort of these Excrescences which called Papulz.

Rhagades

of Rhagales.

Of Fungous Tumours.

Part I,

Rhagades are Chaps or Fissures about the
Verge of the Anus, proceeding from a sharp
fretting Humour, which hardens the Skin, and
for want of Vent grows corrosive, and occasions

The Diagnofticks.

The Caufe.

They are easily distinguished from one another

by their Appearance,

it to chap.

These Excrescences owe their Origin to a vitious Apposition of the parts of a gross Humour thrust out of the Pores of the Skin, and to thick to transpire through the Pores of the Cuticula. The Cristæ and Rhagades are Symptoms of the Lues Venerea, that virulent Humour corroding the parts, and making them spongy, so that they are either totally destroyed in their Testure, or thrust out an irregular Fungus, the spongy Vessels ouzing out a thick Juice, whose parts adhere, and by an undue Apposition increase the Fungus.

The Prognosticks.

The Thymi are the worst fort, and if not well extirpated grow cancerous. The other Excrescent

ces are easily cured.

The Cure.

The Cure of these Excrescences in the Beginning, is to be endeavoured by Astringents, a Summit. Rub. Equiset. fol. & bac. myrt. summit Cort. Granator. balust. squam æris, calx. lot. al men. &c. in the Form of Fomentations or Powders, mixed with Unguent Desicativ. rubr. al campborat. &c. But if these are inessectual, the are to be cut off, and the Roots destroyed be Escharoticks, or actual Cautery; and the Sloug separated, they are to be digested, incarned a cicatrized.

Of the Cure of Rhagades.

In the Cure of Rhagades, the Callosity is it to be removed by Emollients, and then they a to be cicatrized. But if the part be affected wi tI,

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Begin s, a imach t. ala Pow r. ala l, the yed b slough

is fil hey a ed wi oo much supersluous Humidity, & fl. ros. rubr.
ac.—myrt. sum. Rub. ãa. M. j. rad. Tormenil. Bistort. ãa. Zj. alum. Zs. coq. in aq. Chalyb. ad
bis. sub sin. addend. spir. Vin. Ziv. f. Fomentatio.
Ister the Fomentation apply the following, &
Lytharg. Ceruss. ãa. Ziij. Sarcocol. Mastich. Thur.
a. Dj. Ter. sigillat. Dij. ol. Rosar. Zj. Cera q. s.
M. But if the Parts are too dry and hard, &
ing. Vitulin. gallin. ãa. Ziij. Lytharg. Zj. M. pro

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CHAP. XXVIII.

Of a Phyma.

Of a Phyma about the Arms.
The Prognosticks.



Hyma is a hot Tumour in the low part of the Rectum, where the B vatores Ani are inserted.

These often terminate in Fishul Those which happen internally, on

extend their Sinuofity amongst the adjacent Muscle and are most difficult of Cure. Those which a external also terminate in Fistula's, the Sinus, neglected, growing callous.

The Cure.

Those Phyma's which are external are to be a open by Causticks in due time, before they form Sinus, that the Matter may be freely discharge which could not be done so well by Incision, to Orifice being apt to close up again too soon. I internal are soon cured, if opened in the Beginni by Incision.

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CHAP. XXIX.

Of Tumours of the Tonsils.



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Umours of the Tonfils increase gradually, without Pain, and when great, are frequently at-tended with a Catharrh, Cough, and difficulty of Swallowing.

The Cause of these Tumours The Cause. the same as of other Tumours in Glandulous ts, viz. Gross and Superfluous Humours. When these Glands Tumify, they are of a The Diag. nd oval figure, without altering the Colour nofficks. he Skin, and of a very obtuse dull Sense. fthe Tumour be small it may continue a long the Prog. e without any inconveniency. If they be nosticks. e and endanger Suffocation they may be rered without any great danger. n order to the Cure, Bleeding is necessary of sheCure. mpty the Vessels, and prevent the Afflux of

nours, as also Evacuation by Lenient Purges, Aftringent Lotions; Derivation and Revulmay also be made by Blistering, Cupping & s. But these Methods are most proper, when Tumour is made by the sudden Afflux of Hurs. When the Tumour is made by Congestion, to be removed either by Ascission, or Actual Otential Cautery. If Actual Cautery is made fit must be passed through a Canula, two or times, till a hole is burnt quite through the y of them, which will shrivel them up. To rpate them by Potential Cautery, the lick Stone or proper Escharoticks are to be in a proper Instrument to defend the Parts adjacent

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adjacent from the fharpness of the Medicines To Extirpate by Ascission, a Ligature is tob made about the Basis, Snipping them close off with a pair of Probe-Sciffors, taking care left you of the Ligature at the same time, lest it fall down into the Trachea and hazard choaking; to pa vent which the Ligature is to be held in one hand whilft the Sciffors are passed down close byth Basis, and the whole separated at once, the pulling it out by the Ligature. If the Ligature flip off, it is to be taken hold of with an Infin ment convenient, and armed with another Lie ture, that it may be raised from the Trachean at the same time tyed again. The Gland bei extirpated, the Flux of Blood may be stopp with a Gargle of Oxycrate, Cicatrizing it wi the Vitriol. or Alum Stone.

CHAP. XXX.

Of a Ranula.

Description

The Caufe.



Saliva.

Ranula is a hot Tumour of SalivalGlands under the Tong which increasing, fills up thesp between the Jaws, and apprexternally under the Chin.

It is occasion'd as other Tumo Salivai Glands by the Grosness of carn and cicatrize.

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The Tumour is foft and without Pain or Alte- Diagneation of the Colour of the skin, containing afficks and latter much like the whites of Eggs. They fices re not dangerous but hard to Cure.

In the Cure, the Crass of the Blood and Serum The Cure. to be corrected and attenuated not only by roper Evacuations, but Internal Alteratives. sto the Tumour it felf, Discutients are proper; spices which are warm, and Salts mixed in pror Liquors, or held in the Mouth in the form of owders, as B. pipe is. Zinzib. ana 3i. Sal. Comm. Gem. ana Hil. origan. Calaminth. rad. Ireos. rea, armodast. ana Iss. Mastich. Ji. M. F. Pulv.

the ternally, Discutients also are to be applyed, as topp uplaist. de Ranis cum Mercurio &c. If by this the thod it will not discuss, the Tumour is to be stroyed by Actual Cautery, dressing it afterards with Syr. de Ros. siccis, afterwards deterog it with mel. Ægyptiac, in decost. Beton, then

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Rational Chyrurgery, &c.

PART. II.

CHAP. I.

Of Ulcers in General.



N Ulcer is a Solution of Continu-Definition ity in a foft Part, made by Erofion with Loss of Substance. But frequently Wounds made with a loss of Substance degenerate into Ulcers; and though they

or from genuin Ulcers, in as much as the loss obstance is not made by Erosion, but cut away:

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way, yet when by the fault of Corrolive Hamour, a further Erosion and loss of Substances fues, they then may be properly called cers. An Ulcer is said to be made by a hof Substance by Erosion in a foft Part, to distinguish it from that Erosion in Bones, which called Caries.

Differences,

Ulcers differ, either Essentially or Accident ly. Essential Differences are taken from the Figure, Magnitude and Equality or Inequality as also the Difference of the Part affected, a the Nature of the Cause. As they are benis malign, contagious or not. Accidentally, I cers differ as they are attended with Inflamma on. Tumour or Putrefaction, as Phlegmo Erysipelas, Cancer, Gangrene, Callus, Van or Caries. Besides these Accidents which Complicate, there are others which are Symp matical, as Pain, Pulsation, Pricking, Burni Heat, Itching and Excoriation. They differs according to the Time, as they are in the beg ning state or declination. They differ likew as they are Original, or the Event of another fease, as Tumour or Wound.

Cause of Erosion. The Causes of Ulcers are either Internal External. As to the Internal Cause, since an cer is made by Erosion, it is evident, that it is depend on a too sharp and acrid disposition of Humours; it being impossible for the Part be corroded, without such a sharp and corro Quality in the Humours, as may frett, separand divide the Parts of Solid Bodies, which not only contiguous to one another, but continuous, the Parts they consist of being ted and joined together, by a firm and close texture. How the Humours acquire this a

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hap.I. Of Ulcers in General.

onious corroding Quality; and how it occasisan Erosion, I shall further Enquire. First it necessary we should know what Humour it is at makes the Erosion; and since it is apparent, at the Blood is contained in it's proper Vessels. thout Extravalation, that cannot be the Cause pecially immediately; but fince on the contra-Ulcerated parts are plentifully watered with ous humours, the Serum of the Blood, oft confequently be the immediate Cause of Esion. Which as it is a constant habitual Hubur of the Body, it is necessary we should coner how it comes to be too sharp and corrosive, dhow it happens to degenerate from it's Na-

ral or proper Crasis

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The Serum of the Blood then may be inclined How the harp and corrolive Dispositions, either by Humours e Hereditary Constitution of the Body, or an acquire an quired Indisposition. The Hereditary Constitution of the Body may incline a Body to sharp quality. imonious humours, when by the Natural conmation of the Vessels, and the Depraved mper of the Succus Nutritius received from e Mothers Blood. a sharp Disposition of Huours becomes Habitual; and the Humours once pregnated with sharp and acrid Parts, deaves and affimilates whatever is added afterrds, for the supply and constant Nourishment the Body. An acquired Indisposition may dine the ferum of the Blood to a sharp and rid quality, when by Errors in Eating or inking, the Natural Ferment of the Stomach depraved and perverted, the Victuals we eat the Liquor we drink abounding too much with tid Salts, by which the Chyle which supplys e Blood with ferum, is thus vitiated. sides an Hereditary Indisposition or an acquired e by the Faults of a depraved Appetite and Digestion MA

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gestion in the Stomach, the Serum of the Blood may acquire a fharp Corrosive Quality, when he reason of Indigestion, though there be no de praved quality in the Chyle, the Serum of the Blood is crude, and consequently the Pancreatic Juice being not well digested, impregnates the New Chyle with it's depraved Qualitys; which at last growing predominant, by its constant Increase, and this crude acid, fettering and retal ning the Cholerick or Saline parts of the Blood which ought to be separated as Excrementitions the Serum of the Blood acquires an Acrimo ny.

How that Ernding

Now when the Serum is thus depraved accord ding to the difference of Constitutions, it is either Quality is more or less complicated with Phlegm, Chole diversified or Melancholly, and consequently it's acrimon is more or less benign, malignant or virulen and occasions Erosion, and consequently Ula either benign, malignant or virulent, as the Crasis and Disposition of the different Constitut ons tends to the Improvement of this Acrid & rum, of which we have given a large accom before in the first Part, of the Causes of Cance and other Corrolive Tumours.

But to proceed to the second part of our E quiry, viz. how this Actimonious or Corroll Serum occasions an Erosion, and consequent an Ulcer, we are to confider, that Ulcers a either Original or Accidental, and the Event a Tumour or Wound.

The Formal Caule of Erofion.

To make it appear then, how the Corroll Serum produces an Original Ulcer, we may co fider, that as long as this vitiated Serum is mix with, and fwims amongst, the Balfarrick and G tinous Mass of blood, its Edges are dulled, a it's Effects prevented by the Interpolition of t part cles of that M.fs; but when it comes to fe parate II.

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eparated from the Blood, and instead of circulaing quickly past the Parts, and being interposed requently by the Sanguineous balfamick Particles. tremains upon the Vessels and hath power to act without Interruption, it not only acquires a urther degree of Acrimony, the Acrimonious parts fretting and dividing one another, and onsequently making themselves more minute, retail out by this acquired Acrimony and Subtlety, they reable to infinuate themselves, and penetrate tions ato the pores of the Vessels, and though of a lose and Firm Contexture, by interposing bewixt their Parts, they separate and divide them. estroy their Texture, and make a Solution of Continuity. If they are cast out through the clands of the Cutis, they loosing their balsamick ixture of the Blood, corrode the Cutis and cause ulen a original Ulcer, being hindred from passing allow brough the Pores of the Cuticula by some acciental Crudity, which was heaped up in the stimulas of Blood, for want of good digestion; how rudities are bred in the Stomach and Blood hath

en sufficiently shewn in the First Part.

From what has been said of the Reason wind Illeans, the reason of these Act From what has been faid of the Reason of O. The Formal ginal Ulcers, the reason of these Accidental Cause of ur E les, which happen to be the Event of Tumours Wounds, tross Wounds, may easily be conceived, since this &c. degenred rid Humour, being extravasated in the Tunerating our or Wounds, and lying there, may easily activent wire a further Acrimony, which will more rea-

ly promote the Erosion of Vessels, whose profe exture was before in some measure de troyed

weakned by the proceeding Disease.

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How Exter. nal Caules anay concur to the Pro-Ulcers.

Thus much of the Internal Caufes of Ulcers, as to the External Causes, a Corrosive Quality may be communicated to the Serum betwixt the duction of Cuticula and Cutis by either Poysons, Corrosive or Caustick Medicines, actual Fire, or any hot and Scalding Liquor or Oyl, or contagious Diseases, as the Itch, &c. which impregnate the Serumof the Blood with hot corrofive Parts, which making a Solution of Continuity create an Ulcer, which if there be a predisposed Humour in the Blood, Ulcerates more or less as that Humour is more or less benign or virulent.

Ulcers thus formed, according to the Different The Difference of the Nature of the Acrimonious humour, discharge Excrements a Different Excrement, and thence Ulcers are of Vicers. called either Sanious, Sordid, or Purulent.

Whether Sanious.

Sanious Ulcers discharge a thin Serous Humour or Sanies, or Ichor, and by some called Virus; and thence Ulcers are faid to be Virulent but Ichor feems more properly, the Gleet that flows from Tendinous and Membranous Parts and virulent rather the highest degree of Acid mony, the Erosion being accordingly violent, and the Matter discharged fetid and putrid; but that which is properly fanies, proceeds from abundance of thin Excrementitious Serum, which rea ders the Ulcer moift, and is either hot and redding or cold and pale-Coloured, according to the Diffe rence of the Constitution & Temper of the Pati ent, &as the Serum is impregnated with hot chole rick Salts, or depressed & diluted with Phlegm.

Sordid.

If the Excrementous Serum be thick and grot and makes the Ulcer foul, it is called Sordid, the Sordes differs as it is white or grey, and unequa ly coagulated, or as it is black and fetid: The Phlegm as it is impregnated with melancholl acid, austere, or acrid and corrosive salts de generating from the true Colour of Phlegm.

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In some Ulcers the Excrement is neither so thin Purulent. as a Sanies, nor fo grofs as a Sordes, but of a middle Confistence, being of a Greenish or Yellow Coulor, but commonly White, which comes nearest to the Qualities of a Natural and good Serum, and these are called Purulent Ulcers.

But an Ulcer may not be only Sordid, Sanious or Purulent, by the Condition of the Serum, but also by Accident, since by ill management a Sanious Ulcer way become Sordid, or by proper methods a Sanies may be turned into Pus; and on the contrary a Purulent Ulcer may be by ill management turned into a Sanious or Sordid one.

Since then the Nature of Ulcers may be thus The Reason changed, by Art or ill Accidents; that we may of the Difhe better understand the Reason of these altera-ferent Ex. ions we are to consider a little further the Nature Crements of of an Ulcer, and when the Erosion hath made a of of Substance, how the excrement varys fo much, fince it is supplyed by the Serum of the Blood, which is of the same confistence in the same Person, whether the Ulcer be Sanious, Sordid or Purulent.

To apprehend then the Reason of this we are of sanious occnsider, that when by Erosion the Texure of Excrehe Vessels is destroyed, and loose their Conti-ments. mity, the Parts of Matter, which when they ormed folid Vessels, were at rest and void of Motion, being separated and mixed with Part of he Corroding Humours, which separated them, equire a new form, and clog up and obstruct he Extremities of the small Capillarys, which if ivided by any sharp Instrument would extravaate not only Serum, but the Blood it felf, but bengin a great measure choaked up with their own Ruins they are not able to discharge the Serum tielf, but fince the Serum is constantly pressed

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upon the Part by the force of Circulation, the thinner Part of the Serum is strained out through the Extremities of the eroded Vessels, and supplies that thin Sanious Excrement, which is reddish or pale Coloured, as it is Tinctured with the purest and thinnest Parts of the Blood, or pure and unmixed; but,

Of Sordid Excrements.

When the Extremities of the Vessels are so obstructed, or the Serum of the Blood so gross, as
not to separate it's thinner Lympha, the eroded
Ruins of the Vessels not being sufficiently diluted, they form a gross and thick fæces, which
makes the Ulcer sordid; but an Ulcer may not
only be fordid by thus obstructing the Vessels, and
stopping that thin serous Gleet, but by the ill use
of Applications, which by their Astringency or
other Qualities, accidentally incrassate the thin
Humours separated, and likewise bind up the
Vessels and so occasion a Sordes.

Of Purulent Excrements.

How Purulent Ulcers discharge a good Pus of a due Consistence will appear, when we come to explain the Nature of Digestion, it may be sufficient here to shew, that the faces made by ero sion being digested and discharged by dilating it and turning it into Pus, the Extremities of the Vessels are more at Liberty, and are able to discharge more freely, the Serum contained in them, which makes the Excrement thicker, and more easily converted into Pus, as the Vessels are clear of their Obstruction.

But when an Ulcer is Putrid, it depends upon the depraved Qualities of the Humour, which violently erodes the Parts, and quickly dispose them as well as it self to Corruption. I.

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As to the Diagnosticks, if an Ulcer be external it The Diageasily appears to fight, but if internal, it is known nofficks. by the Excrements that flow from it, & the Symptoms that attend it. If Ulcers are deep or finuous or carious, the use of the Probe will make itevident, and if internal are proportionable to the Quantity of Matter that flows from them, if sanious the Gleet shews it; if the Lips be lagged and Callous, it is Phagedænous or Virulent, fthe Excrement be gross and slimy it is fordid; fcorrupt and fætid, it is Putrid; if it spread nd be superficial, it is a Herpes excedens. If a Nerve, Tendon or Ligament be affected, the cute Pain will make it appear. If the Pain be rom a Nerve, the Limb is sometimes contracted, nd Convulsions attend it, if an Artery be near, he Pulsation will be apparent.

In Prognosticks, the Event is to be Judged of The Progy the Quality of the Ulcer, the Part affected nosticks.

nd the strength of the Patient.

Ulcers in the skin are not dangerous, but more ifficult of Cure, according to the Intemperies. athe Emunctories of the Body, they are dangeous being near large Vessels, and difficult of cure y reason of too much Moisture. In the Musles of the Spine and Back they are difficult to ure and dangerous, as also when near any rincipal Part, which may be affected by them. Parts of exquisite sense, as the Hands and Feet, hich are full of Tendons, they are painful nd hard to cure. Large and Deep Ulcers are which angerous exhausting the Spirits by their great spoke ischarge; and if they lye under any Nerve, Artery Tendon, fo that they cannot eafily make a scharge, or safely be laid open, they are flow d difficult of cure. If the Ulcer be in a dependgPart and the Body full of Humours, tho' the vality of them be tolerable good, it is long in

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Quantity be small. When Ulcers by their long Continuance have destroyed the Crasis and Ton of the Part, they are incurable and dangerous

In the Cure we are to consider, whether the be conside- Ulcer be Simple or Compound. And fincei red in the is not only a Solution of Continuity, but all a loss of Substance, which is made by a Corro five humour, the Solution of Continuity is no only to be reunited, by Restoring the Loss Substance, but the Internal Indisposition is tob

obviated by proper Medicines.

If the Ulcer be simple, we are to consider the The Diffe time of it, whether it be in the Beginning, Aug confidered. Compound Ulcers, several Indications of themselves according to the Vicentians

Compound Ulcers, feveral Indications one protection themselves, according to the Variety of Symptom trends and themselves, according to the Beginning, the Crud and and Waterish Serum is to be concocted and gested, and by the Use of suppuratives converte into Pus; but in putrid UlcersSuppnratives aret be avoided, fince they increase. Putrefaction, and lece continued too long in Purulent Ulcers they in ood crassate the Excrement too much, and render the rese Ulcer fordid; when an Ulcer is attended with The pain, they not only digest the matter, but be ause their Lenient Qualities, correct the sharpness of the Humour and ease the Pain. In the Increase when by the use of Digestives the Matter is considered into Pus, it grows thicker and less is sharpness. quantity, and then the Ulcer is to be cleanfed is the Use of Detergents. In the state, when the leer Ulcer is cleanfed, Sarcoticks are proper to reech store the loss of Substance; and in the decline igate igati tion, when it is filled with flesh, and sufficient alf incarned, it is to be Cicatrized with Epulotic antly How Digestion, Detersion, Incarning, and Ciscar catrizing are performed, I shall endeavour tern

explai

aplain, in each Particular Case, when I come long o consider the Nature of the Ulcer, and the Method by which these Intentions are promoted.

But since an Ulcer is subject to A promoted.

But fince an Ulcer is subject to Accidents and How in the Symptoms, which are occasioned by the Influx Accidents fisharp corrosive Humours; before we can hope are to be also or success in Curing the Ulcer, the Cause of prevented. One state Accidents, and of the Ulcer it self, is to be removed out of the Blood, and the vitious epraved Temper of the Serum to be corrected to ad altered. So that in respect of the Cure of a Ulcer, there are several Intentions.

allcer, there are several Intentions.

And First a convenient Diet is to be ordered, The First Aug ocorrect and temper the ill Qualities of the Intention.

area eccant Humour, which is to be regulated ac-

off ording to the quality of the Humour, and the rength of the Patient, neither too hot to inflame ording to the Patient, neither too hot to inflame ording to the Patient, neither too hot to inflame ording to the Patient, neither too hot to inflame ording the Crud of the Patient, neither too hot to inflame ording to the Patient, neither too hot to inflame ording to the Patient, and the Ulcerfilled with Crudities; their Drink is also to be modeared in quantity, and tempered in qualities, as and kecessity requires. As also the Air ought to be eyed ood, and Exercise moderated, as Reason and resent Circumstances give Occasion.

The second Intention respects the Antecedent The Second of the Patient, by Evacuation, by Bleeding, or crease urging, or both, as the strength of the Patient, as considered of the Quantity of the peccant Matter, and other circumstances indicate, which diminates is not so plentifully thrown upon the likered Part; Derivation may also be made, by to reches, Cupping Glasses, Blistering Plaisters, ecling the conjunct, as it supplyes the Ulcer contotic antly, be vitiated and much depraved, that is offerasy is to be removed by the Use of proper ternal Medicines, which may restore the Explain

Part.II.

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Blood and Serum to their Natural Crasis and Temper.

The Third Intention.

The Third Intention regards the Part affected with the Ulcer, which is weakned by the Intem. peries, and by that means rendered apt to yield to the Influx of depraved Humours. To prevent this, proper Aftringents and Repellents are to be applyed in the form of Detensatives. Parts are also to be guarded from the Influxof humours by due Position, and Expulsive Bandage.

The Fourth

The Fourth Intention respects the Ulcer Intention. it felf, which confifts in a due Application of Medicines with regard to the several times of it whether in the Beginning, Augment, State of Declination; as also the Accidents and several Symptoms that attend them. How these intentions are to be pursued, and the Intemperies well as the Ulcer are to be obviated, shall be accounted for, when we come to treat of each particular Species in it's proper Place.

CHAP

CHAP. II.

Of a Simple Ulcer.



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Simple Ulcer is a Solution of Con-Definition. tinuity made by Erosion, with-out any other Symptom or Accident attending it. From which Definition it may easily be known and may promise a good Prognostick.

the Cure there are two General Intentions, The Intention of reftore the loss of Substance by a tions of eration of new Flesh; and Secondly, to u- cure. the separated Parts by a Cicatrix.

norder to the first Intention, a regular Diet The First be observed, and a Moderate use of Non-Na-Intention.

Is; for since the Ulcer is not attended with mperies, if the Serum of the Blood be sured with well digested Chyle, and the Natural cuations be continued, the Crass of the Hurs will be preserved, without the Assistance ledicines, and the Tone of the Part preserby a Moderate Supply of good and natural es, and the Ulcer well Digested, and easily

nce then in these SimpleUlcers, Nature is not the Interrhed in performing her Part by deprayed ill tions differ
ofed Humours; nor interrupted with ill accorptoms; External Applications will have their time of the
lar effect either Digesting, Deterging, In-vicer.
ing or Cicatrizing, as the time of the Ulland Matter that floweth from it shall Indi-

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In the Beginning whilst the Extremities of when pro-Vessels are obstructed by the Parts of those ye per. fels that are confumed by Erofion, and only fues out a Waterish Humour, Digestives proper, whereby the Matter may be made this ker and turned into a laudable Pus, Imooth easy to the Part, and every day approach nearer to the true Nutritious Juice. Medicia proper for this Intention are fuch as have Is ent Qualities, which are to be adapted to Temper of the Part they are applyed to later Bodies Terebinth. cum farin, tritia, Croc. 6 ov. is sufficient, but in stronger Bodies farin. h fabar. colophon, Thus, pulv. sem. fanugraci t

Or Unquent. Bafilicon.

Why conveand bow Digeftion 7 promo-Rd.

As for the manner, how these Medicines p nient in the mote Digestion, to make it evident, it will be Beginning, quifite to confider, First, the Nature of the cer, and then the Nature of the Medicines plyed. As for the Nature of the Ulcer, f what hath been said in the the Chapter of Ul in General, it appears, that the thin Gleetin he e Beginning is occasioned by the Obstructional war. Extremities of the Vessels, the thinner Pan the Serum being strained through the fecesal eroded Parts, which clogg up the Vessels, Cause that Obstruction; now since digestive increases Balsamick, Emolient and Astringent, the Boarts mick Medicines confifting of warm Parts, what omit very volatile and odoriferous Effluvia,it once be Reasonable to suppose, that when these ging dicines are applyed, that the Astringency on ia m butes to the thickning of that eroding Humbins which Gleets in the Ulcer, since Astring and mixed with Acids are easily converted into and it cilage; but they not only are serviceable that thickning this thin Humour, but by imbibile the b

be added, and mel. rosat. and Syr. de rosus

chap.II. arp eroding falts prevent a further erosion of Parts, whilst the Lenient and BalsamickParts ointerpose their good Qualities, and dull the lges of the Eroding Humour, and likewise this pto incrassate and thicken it; and by impreging it with their foft Balfamick Parts, make the loft and smooth and easy to the Parts, whilst ich Emolient Balfamick Qualities however. Le also, to soften and loosen the seces, which tructed the Vessels, which also are washed a-y by succeeding Serum, pressed out of the Vestructed the Vessels, which also are washed ai. de But besides their thickning, this thin Hu-ir thus, and preventing the further Erosion of Parts, they have another good Effect, which their volatile Effluvia and warm Parts to regnate the Serous Gleet, and likewise the ded feces, and by that means the Parts of the s being separated and divided, they are more to incorporate with the rest of the Humours. Thus by degrees this thin Gleet does not only with thicker and mild and more Balfamick, looit's corrosive Quality, but also the seces the eroded Vessels being gradually digested by warm Parts of the Medicines, the Vessels bepart e by degrees less and less obstructed, so that
dessel ad of a thin Watry Humour they are able to
sels, harge the thicker Serum, which is more reaflive incrassated and digested by the mixture of
the Boarts of the Medicines, and turned into Pus.
ts, what these Digestives may have a better Essel
to oncocting and altering this Humour, and
these sing it to a good consistence, they ought to
to a moderate consistence themselves, and not
thin and liquid, less they run off the Pledstring and leave them bare upon the Ulcer, and so
thin into and instance themselves, that they
the better affect the Bottom of it. They
the better affect the Bottom of it. They N₂

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are to he applyed upon Pledgits, Doffils or Ton according to the depth and nature of the lin with covenient Defensatives over them, to m ferve the Temper of the Part & prevent Fluid In the Augment, when the Matter is w

their Etfects.

when pro- digested, the use of these Medicines is to per and bow forborn, for by the too long continuance of the the Matter is thickned too much, and the like The Matter therefore of thell made fordid. being well digested, and of a due confile Detergents are to be mixed with Digestives, Terebinth. lot. in ag. acetos. Biv. suc. apii cog. ad consumpt. Succi, deinde add. vitel, unin or Mund Paracels. may be applyed; or Ball with a fusficient Quantity of Mercur. pracing with which you may Digest, Deterge or lna as the Quantity of the Pracip. is more or When by the use of these sharp biting Medici the gross Phlegm, and Spongy Flesh which in digestion, are fretted away, and the Flesh pears of a Ruddy Colour, the eroded Vellels gested and converted into Pus, being like worn away, and nothing but firm Flesh rema the Ulcer being

wica.

In the state, we are to make use of Sarcotic when to be which are to be moderately drying, and not sharp, lest by fretting to much, they destroy confume instead of promoting the Generation Flesh; and as they are not to be too dry fretting, so neither are they to be too moils, they suffer Fungous Flesh to rise, or digest, corrupt the found Flesh. In fost and to Bodies mild Sarcoticks are to be made use of Olibanum Thus, Aloes, cort. Thuris. farin. an time grac. orobi. &c. Basil. Diaponipholygos, Ung Tutia. Calaminaris, &c. Or R. Myrrh. Alou 3 s. Thuris 3i. Mastich. 3 ss. gum. Elemi Terebinth. venet. 3iv. ol. Hyperic. q. f. f.

nap.II.

m. Stronger Sarcoticks are, rad. Ireos. Aristoloch. farin. Lupin. Sarcocol. affa. fatid. made up

h mel. despumat.

Though Medicines applyed may promote the Hom Nineration of Flesh and nelp Nature, yet since me prmake that Flesh which supplies the Loss of sums her offance in Ulcers, is the Work of Nature, we wind il endeavour first to shew, how Nature perms her Part, and then how she is assisted by Art. d First, when by the use of detergents the es and spongy Parts are fretted away, if the ergent be strong, the Extremities of the Vess, which ouzed out the thinGleet, & afterwards Serum which afforded the Excrementitious Pus, fo far clear and open that even drops of blood pear in their small Cavities. Now as the ts of Blood and Serum are confusedly jumbled ether in Circulation, it must follow that the um interposed betwixt the Parts of the Blood less fuch a space, that if they could be taken ay, and the Parts of the Blood continue in the te form and place, as when the Serum was erposed, there would be a great many pores d cavities, communicating one with another in it Bloody Substance, which would be as fo my Vessels or Pipes, for the Passage of another quor, could but those particles of Blood adhere gether in such a form, and acquire the firmness a Vessel. If this were possible it were no ficulty to Imagin how those drops of blood in Extremities of the Capillarys, adhering to fides of those Minute Vessels might be condenand hardened, and by that Apposition of arts, ke a prolongation of the Vessels, whilst in the an time the Serum betwixt their Parts would puld, and form a Cavity, and continue Liquid it; fince the Blood is apt to coagulate, the Serum atinuing fluid. Now if the Serum thus formed

Partl

a Cavity for it self, the stringy Parts of the Blood adhering and forming a Vessel, it would follow that subsequent Serum might distend and stretch that Cavity and make it sit to receive Blood which rising through the Pores of the new mad Vessels, make a fresh apposition of Parts and secontinue the Work of Incarning, the Blood si appearing upon the surface of this new made Flesh as it did at the first upon the surface of the Original Vessels.

That the Work of Incarning is thus performed I am the more reasonably encouraged to believe First, because the difference betwixt a Solid an a Fluid is nothing, but that the Parts of a Soll areat rest, and without Motion, and that it Parts of a Fluid Body are in Motion. Second because the work of incarning must be done an Apposition of Parts of some Humours, while first adhering to the original Vessels, and then one another, must form a Continuity, and gro folid, for as much as being at rest they loosethe fluid Quality and acquire a folid Quality. Third because there is no other Humour but Bloods Serum, to make that Apposition; and thatt Blood is more viscid and tenacious, and apt to adhere in fuch a Continuity than Serum, while remains fluid, when out of the way of Circulation whereas the Blood foon inclines to a folid furt when it hath lost it's Natural Motion of Parl which are continued in Circulation. because when an Ulcer is incarning, the Sen is constantly issued out and supplyes the Mat of Fui, whereas the Blood is retained within new prolonged Vessels.

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If any one should ask, how this Bloodmust be Anobjesticontinued in circulation, if contained in fuch on confidefort of Vessels, it may be answered, that since red. they have a Communication with one another, and that the Extremities of Veins as well as Arteries are open upon the furface of the Original Vessels, the Blood forced from the Arterial Capillarys, proffes it's Current through Lateral Communications, till it enters the Orifices of the Veins.

Thus much being said of the manner of in- How in carning, we shall next consider, how Medicines carning is may affift fimilar Parts in making a fimilar Ap-promoted position; In order to apprehend that, we may consider, what Qualities these Medicines have, and confequently it will appear, how those Qualities may contribute to this Intention of Nature. And first, fince these Medicines are of a Gummous and Rezinous Quality, as well as warm and Aromatick and drying, they still ferve to preferve the Matter of the Ulcer in a due degree of thickness and foftness, that it may lye easy and Balfamick upon the new Vessels, without corroding and fretting them, whilft by the warmness of their Parts, they preserve the Natural Heat in the Part, and by their drying and bitter Qualities, they check and restrain the too quick growth, and rife of this new flesh, which would otherwife grow loofe and spongy, the Vessels being prolonged faster than they could grow firm and hard; so that when they come to harden and brink afterwards, the Flesh feels lose and spongy, but by virtue of these drying Medicines, they grow no faster than they can be confirmed and hardened as they increase. But care must be taken, that these Medicines be not too drying, lest on the contrary they contract, if not corrode,

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the new Vessels, and make the Ulcer discharge a thin Gleet again and render it Sanious.

The next thing to be done, when the Ulceris trizing Me incarned, in the Declination, is to Cicatrize; dicines are and fince nothing but the Serum is discharged so be made from the New Vessels, the Medicines made use uje of. of to this purpose must be Astringent and drying imbibing the Superfluous Moisture of the Serum and by that means disposing it to grow gross and apt to harden and form a Callus; being all thickened by the Astringency, which also in bibes moisture and helps to form the Cica trix.

> Moderate Cicatrizing Medicines are, Bol. An men. Sang. Dracon. Creta. pulv. oftreor. combust rof. rubr. baluft. sumach, calx lota, cerussa, plumbun ustum, tutia, but of which Compositions may be formed and used, either in the form of powde or decoctions; out of which Pledgits may be wring and applyed to the Part. If ftronger Medicines are required, Sacchar. Saturni, vim Roman. as. uft. Squamme. aris, ferri, croc. Man astringent. &c. or, Unquent. Calaminaris, Em Grifer. ana 31. Liniment. Arcai, 31s. Sacchar Saturn. Bi. cere. q. f. f. Emplastrum. But some o these Medicines it too strong, or made so by be ing applyed in too great a Quantity, they instead of hardening the Serum into a Callus, corrod and confume the fielh.

As for the time, when Epuloricks are tob applyed, it ought to be when the flesh beginst rise near the Lips of the Ulcer, that the Ulce may begin to Cicatrize from the Edges; for rlaftiv the Flesh rise too high you will be forced to us Escharoticks to take it down again. If the Lip age. of the Ulcer lye not even with the Ulcer, it wil not easily Cicatrize, therefore they are to kept down by Compress and Bandage.

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CHAP. III.

Of Ulcers with Intemperies.



Sit seldom happens that an Ulcer of vicers is without some Disease compli-with mem-cated with it, so it acquires disperses. ferent Names, according to the Disserence of the complication; hence from a particular indisposi-

ion of the Humours in General, or of some part, whose weakness inclines it to receive ill tempeed Humours, an Ulcer is said to be with In-

emperies.

Ulcers with Intemperies differ either as they How they re Simple or Compound. The Simple are, differ. lot, Cold, Moist, and Dry, The Compound re when two of these happen to be compliated together. As Hot and Moist, or Dry,

A hot Intemperies may be occasioned either The Cause ya particular Habit of Body, and Dyscrasy of of a bot Interperies.

The Serum of the Blood; or may be acquired by temperies.

The particular Diet and manner of Living; or may be occasioned Accidentally by external Heat, or the Application of hot Medicines, or by keeping the Part too hot with Cloaths or Rowlers, and classes, the part may be heated with ill Baning age.

Of a cold Intemperies.

A Cold Intemperies may either proceed from a particular Habit of Body, which depends on the Natural Constitution of the Person; or else it may be acquired, by ill Diet, or occasioned by accident; as keeping the Part too cold, so want of Cloaths, or for want of Compress and Bandage, or by the use of too cold Medicines.

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of a Moist A Moist Intemperies, is either Habitual, of Intempe. depends on the weakness of the Parts; and for ries. quently is occasioned by wet and foggy weather or the fault of Bandage, either retaining it, or not expelling and defending the Part from it Influx.

of a dryin- A Dry Intemperies may be occasioned, he temperies. exhausting the Spirits, by Chronick Disease Hectical Indispositions, or too sparing Diet; or be emaciating the Part.

The Diagnosticks. If the Intemperies be hot, the Ulcer and a jacent Parts are red, and a fensible Heat is possible in the Ulcer. The Matter being share causes a pricking, burning, or itching in the Part. They are releived by cooling, and exaperated, by hot Medicines.

In a Cold Intemperies the Ulcer is Livid at Pale, and the Flesh also livid and loose; and relieved by heating Medicines.

A Moist Intemperies is evident, by the green Humidity, and the Flesh spongy and flaccid.

In a Dry Intemperies, the Habit of the Body is lean, and the Part affected Dry and Squalid, and the Lips of the Ulcer thin and lank.

Compound Intemperies may be known by the

figns of the simple.

Ulcers attended with Intemperies are difficult Progof Cure, as the Intemperies requires time to re-nosticks. move it; and therefore the Dry Intemperies is the worst, requiring the longest time to relieve it.

In the Cure of Ulcers with Intemperies, that of the Cure Intemperies is to be removed, before success of a boilincan be hoped for. Astringents and Repellents temperies. are proper to cool the Part, and defend it from the hot Humour. Also a cooling and moist Diet is to be observed. If there be a Plethora, Evacuations by Bleeding and Lenient Purging are Convenient. External Topicks ought to be cooling and moderately drying, to allay the heat and imbibe the hot sharp Parts, or dry up the Superfluous Moisture, as Basil. cum pracip. rubr. Unquent Diapompholyg. Tutie. album. Unquent. Plumbo : Calce. which both correct the Heat by their evident Cooling Qualities, and absorbe and imbibe the hot acrimonious Parts. To check the Intemperies of the Part, Defensatives may be applyed, made of Unquent. alb. camph. emp. diapalm. um succis, Unquent. Refrig. Galen. Nutritum, or Populeon, which with the addition of Wax may e made into Cerots, over which Compresses wrung out of Oxycrate, or red Wine, or Suc. fol. plantag. polyo. lactuc. burs. Pastor. cum Acet. or flor. rof. rubr. balust. bac. myrt. sumach. &c. Decocted in red Wine.

Of a Gold Intemperies.

In the Cure of an Ulcer with a Cold Intemperies. Diet is to consist of such things as are of good Nourishment, and warming and correted with spices. The Crude Humours are also to be discharged, by Purging, and the Constitution of the Blood and Serum, altered and corrected by proper Internal Medicines. External applications ought alfo to be warm and attenuating, to give vent to the crudities by perspiration, as Decost. Absinth. scabios. Agrim. salvia, beton. fl. cham. bac. Laur. Junip. adding Wine or Spr. Vin. which is to be applyed hot with Stupes. Ulcer ought to be dressed with Detergents, first to cleanse it of gross Humours or Phlegm, before it will incarn and cicatrize, as Mundif. ex Apio. Paracels. Unquent Apost. laying Emp. Diachyl. Ireat. de Betonica, Barb. magn. or flos. Unquent. over all, then Incarn and Cicatrize with Pledgits preffed out of a solution of Sacehar. Saturn. in Spirit of Wine.

Of a Moist Intemperies.

In the Cure of an Ulcer with moist Intemperies, the Diet is to be considered and tempered accordingly, and a Decott. Sarfaparil. faffopra, Lign. Guaj. Rad. Chin. &c. may be used for common Drink. Externally Astringent Repellent are proper to frengthen and contract the Part that it may be less apt to receive superfluous The Part may also be fomented with a Decoction of Summit absint. fol. Beton, fl. ro rubr. sum. rubi. bac. myrt. N. Cypress. balust. &c in Wine or Oxycrate, which likewise strengther the part and discuss as well as repel superfluou Humours. In dressing the Ulcer it self, Unquen Diapompholyg. Tutia, Nutrit. alb. cam. desiccan rubr. are convenient, or R. plumb. Uft. Diapon pholyg. lot. ana 31. ol. Myrt. et cera q. f. or Cadmia. 31. Is. erug. aris. combust. ana 311. alun seiffilis. 31s. cere. Nov. 3v. sev. arietis. q. J.

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Also Ag. Calcis, and ag. Aluminosa. are proper to dry up the superfluous Humidity in Ulcers or

the Parts about them.

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In the Cure of an Ulcer with Dry Intemperies, of a Dry the Intemperies is first to be removed; the Ul-Intemper cer in the mean time being dressed with diges-ries. tives and kept clean. The Diet ought to be fuch as is easy of Digestion, and affords good nourishment, and their Drink also plentiful and good, the Humours are to be encouraged to flow to the Part with Friction, warm Fomentations, Embrocations &c. which are to applyed Warm till the Parts look red and begin to tumify. The Influx of Humours are also to be encouraged with Emollients, which may relax the Part and give way to the Influx of Moist Humours of such Fomentations ought to be made, and the Medicines applyed afterwards ought to be of the fame Nature, as Be suc. bismalv. parietar. ana 3ii. ol. amyed. dulc. 3vi. cera. q. f. f. Cerot. The Ulcer is to be dreffed with Basilic. and pracipit, rubr. with which, in different Proportions, you may also deterge and incarn, or & Thur. Mastich. Sarcocol ana 3i. ol. Hyperici. 3ii. Terebinth. Venet. 3i. fs. cera. alb. q. f. m. f. Unquent. In the Cure of these Ulcers care must be taken, not to make use of Applications too drying, lest the Intemperies in the Part be renewed again, and the Cure by that means prolonged. When the Ulcer is well digested, and deterged, proceed to incarn, and cicatrize with convenient Epuloticks.

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CHAP. IV.

Of Ulcers with Pain.



Hen an Ulcer is attended with Pain it prolongs the Cure, and excites several Accidents, as Fever, want of rest, and exhausting of the Spirits.

The Causes of Pain, are a sharp Acrid Humour, corroding the

Ulcer, and Inflaming the Parts about it. depending either on an Habitual ill Crasis of the Serum; or acquired by the fault of digefti. on, vitiated by sharp and acrid Salts depra. vating the Natural ferment of the Stomach; or it may be occasioned by the ill use of exter. nal Applications; as for want of digesting the Ulcer in time, or by continuing the use of detergents too long.

The Caufe of Pain in Vicers.

Pain

Pain wants no other Diagnosticks than the Sensation of it, which is known by the Complaint of the Patient. Whence and from what Causes, that Pain proceeds will appear from the Symptoms.

In the removing of this Pain, the Intentions The Intentivary according to the Difference of the Cause. ons vary aclifit proceed from a Plethora or Cacochymia or cording to both of them. Bleeding and Evacuation by Purging are requisite, to make a Revulsion, and to discharge Part of the peccant Matter, that the rest being more easily diluted, and altered, may relieve the Pain to which purpose, cooling E-mulsions and Juleps and the use of Opiates, will contribute; as also a due Regimen in Eating and Drinking, &c.

Externally the Pain is to be removed by proper Externals. Anodynes. If it be Sanious, Digestion is to be promoted, and Lenients applyed to the Parts about the Ulcer, as Nuc. sem. cydon. Psyllii, Althea extract. in decost. Malv. & farin. hord. Croc. cum Vitel. ov. exung. porcin. gallin. in the form of Cataplasms, or with Wax, made into Cerots, or Ceratum Galeni. Unquentum Populeon, Nutrit. alb. camph. or emp. de Bol. some of which by their Lenient Qualitys, interpose their soft Essluviums betwixt the sharp particles of hot Humours, and by dulling their Edges allay the Pain; others, by their cooling Qualities and Astringency repel the hot Humour, and allay their violent serment by cooling the Blood and Serum.

Of Ulcers with Pain.

If the Pain proceed from hot acrid Humours corroding the Ulcer, it may be dressed with Un. guent. Diapompholyg. or Unquent. Tutia, with Basilicon, and a little pracipitate, with Compress wrung out of Oxycrate or red Wine; which will imbibe and allay the Heat of corrolive Parts in the Ulcer, and allay the heat of the Parts also, and by strengthing their Tone make them less sub. ject to the Influx of those Humours.

If Pain be occasioned by fordid Humours in the Bottom of the Ulcer, it may be deterged with Precipitate, and thus the Cause being removed the Pain will be relieved.

CHAP.

Part.II.

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ently, charge Cavit or may fness ! Con ht be Vesse ; or th t, when

CHAP. V.

Of Ulcers with Fluxion.



S Pain, so Fluxion is commonly the Attendant of Ulcers.

The Causes of Fluxion are ei. The Cause ther the Quantity or Quality of of Fluxion. the Humours, or the Fault of the Part affected. The Quantity of the Humours are the Occasion of

uxion, when by reason of a Plethora, the Vessin general are Crowded with Humours, and ich distended, so that if they be any way obnoted in their Motion, they presently distend d Tumify the Vessels in that Part, the rest of e Vessels being so full of Humours themselves, not to be able to receive the Humours obstrud in their free Passage in these; so an Ulcer hag corroded and destroyed several Vessels, thro' ich the Humours ought to Circulate, the large fiels carry fo much Blood into that Part, that rest of the Vessels being already full, are not eto relieve these corroded Vessels, and conseently, they not only swell and tumify, but charge a greater Quantity of Humours into Cavity of the Ulcer. The Quality of the Huur may be said to be in fault, when by its fness it is apt to tumify in the Branches of Corroded Vessels, though otherwise it ht be repelled by the strength of these divi-Vessels and be admitted into other Ves-; or the Quality of the Humour may be in t, when by its sharp and corrosive Particles it makes

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makes so great an Erosion of the Vessels inth Ulcer, that they are wholely obstructed and him dred from making a discharge of Serum into the Cavity of the Ulcer, and consequently the Ve fels being diftended by both Blood and Serun and not able to repel them back, they confequen ly tumify the Vessels. But here I would have understood, that by Repulsion I do not mean a retrograde Motion of the Blood, but that the T nick Stricture of the Vessels is not able to repe cufs, and refift the farther Influx. But to proce the Part affected may be the Occasion of Fluxio when by weakness of the Vessels, they are apt give way to the Influx of Humours, and are fily distended and tumifyed; which they aret more inclined to if in a depending Part.

The Signs of an Ulcer with Fluxion are t The Diag-Tumour of the Lips and the Parts about it; a nosticks. the Quantity of Excrement flowing from Ulcer, as also Inflammation proportionable tot

Quality of the Humour.

The Prog-Ulcers with Fluxion are always difficult too nosticks. as the Fluxion is more or less.

In the Cure of these Ulcers, the Intention Intentions of Cure to vary according to the difference of the Cause prevent Iluxion.

Heat occasion it, the same Method is to be obl ved as in a hot Intemperies; If Pain, it is to ht not relieved by Lenients as in the Preceding Chapt such If a Plethora attend the Fluxion, Evacuation Hum Bleeding is requisite, and a slender Diet, keep the Ult the Body open with Clysters. If the Quality the Humours be in fault, Purging is convent and proper Internals to correct and alter the Chapt where of the Part is the Occasion by giving way to Humour, it is to be strengthened, and the Moistus flux of Humours resisted by proper Astringer monion and such as are also cooling to allay the extra diagram of the

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mary Heat, that is occasioned by the Fluxion, fol. Plantag . Polygon. sum. rubi, Equiset. Cort. Ulmi, r.Ros.rubr. bac.Myrt.balust. Nuc.gland.querc.Cyes, gallar which may be boyled in oxycrate or ine and applyed in stupes. Or Aq. Aluminis and a. Calcis may be convenient, especially in strong dies. Or, Unquent. Nutrit.alb. Camphorat. de cativum rubr. Cerot. Galeni. Emp. de Minio or Bolo may be applied to the same Intention.

Whilst the Influx of Humours is thus preven- To correct , it will be necessary to correct the Acrid ero- the Hug Humour within, by proper Digestives, that mours in-Vessels tumifyed may be freed of the faces de by Erosion, and no longer Obstructed; but ve Liberty freely to discharge that Serum, ich supplys the Matter of Excrement; by ich means the Tumifyed Vessels, by this disrge, will be relaxed, and the Tumour aba-

The Ulcer being sufficiently digested, we are other inproceed to deterge, which is to be done with tentions. nger detergents than are necessary in simple ters, fince the corroding Humour is more sharp acrid, and confequently must occasion a groffor lacid, and consequently must became a ground a ground for short the Extremities of the Vessels; yet they to be not to confist of sharp biting Parts, but rapped the fuch as may check the Acrimony of the erosing Humour.

The Ulcer deterged may be incarned with the lift wing, B. Terebinth Venet. 3ii sevi vaccini 3i.

to the most only drying, as they imbibe fuperfluhe Moisture, but cool, and likewise imbibe the
Moisture, but cool, and likewise imbibe the
get monious parts of the Serum, if any remains
tra preceded; whilst the Balsamick parts of the
Turpentine 0 2 Turpentine

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Turpentine and Rezins, also soften and increase fate the Excrementitious moisture, and make easy and soft and Balsamick upon the Ulcer, with out disturbing Nature, whilst she incarns, what any sharp or biting Particles. The Ulcer incarns is to be Cicatrized by proper Epuloticks.

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CHAP. VI.

Of Ulcers with Hypersarcosis.

The Definition and Cause.



spersarcosis is an Increase of the spongy stesh made by a took Apposition of parts in incame The Reason of which will pear from what I have said in second Chapter of this second

New flesh is suffered for want of Medicines siciently drying, to rise too sast, and the ser of the Blood is not sufficiently absorbed, new Vessels are not only too much distent and the apposition of parts so sast, that have not time enough to harden, by reason too much Moisture; but the Serum containe them, being uncorrect and eroding, loosenst Texture and Firmness, so that the whole apploose and spongy.

hap. VI. Of Ulcers with Hypersarcosis. 197

A Hypersarcosis is so evident of it self, that The Diagere is no need of any other Diagnosticks to nosticks.

Now it by, but its own Appearance.

In the Cure we are to consider the Cause; and The Cure to the if Luxuriant sless happens for want of Meto bevaried cines sufficiently drying, to consume the super according to the Cause. The consuments have me to harden and and grow sirm, then stronger edicines are to be made use of, as Spong. ust. Latinia alumen ust. Merc. pracip. Or B. Nuc. gallar. It. granator. ana 3ii balust 3i. alum. ust. 3i. pulv. will. M. which sprinkled upon the Ulcers, it is be covered with dry pledgits, and bound up that compress. Or aq. Calcis with a few grains sublimate may be applyed. But the Vitriol me will not only keep down the loose Flesh, but o help to make a firm Cicatrix.

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CHAP. VII.

Of Ulcers with Caries in the Bones.

that the Cause of a Caries is either externalo

Of the Cau-



N Ulcer is often complicated with a Caries or Rottenness of the Bone, the Caries being occasion ned by the Ulcer; but sometime the Caries is precedent to the Ulcer, and the Occasion of the Ulcer. From whence it appears

internal. External, when by an Ulcer preceding the Bone is also eroded by the Acrimonious Mat ter of the Ulcer; Internal when the Erosion 0 riginally begins in the Bone it felf. How part are Eroded by the acrimonious parts of sharp corrofive Humours hath been accounted for i the first Chapter of Ulcers in General; yet sind How a Ca-the substance of a Bone is much different from ries is pro- the Nature of foft Parts, we shall briefly conside duced by an how the Bones themselves are corrupted by the sharp Humour. When the eroding Quality of the humour then hath penetrated fo far as to corrup the Flesh, and destroy and consume the Perioste um, the fubtle acrimonious Parts gradually in nuate themselves betwixt the Parts of the Bond and mixing with that Balfamick oyly Mucilage which nourishes the Bones, betwixt it's Lamina they putrify and corrupt it, and make it rancid fo that it acquires heterogeneous Parts, and a longer fit to nourish them, but perverted by the acrid Parts from the Ulcer, it becomes too ful tle, fo that it's parts are crowded into the por

External Cause.

the Lamina of the Bones, and separate and ivide their loofer parts, fo that the more firm ad gross, loosing their Continuity become poous and spongy, whereas as long as it retained sfweet oyly Mucilaginous Quality it supplyed eBones with a foft and inoffensive Juice. So inimentum Arcai may be fafely applyed to a one, whereas greafy Medicines, which have Linimenrong and rancid parts foon corrupt and putrify tum Arcai hem; fo the Juices in the foft Parts, by a mo- applyed to erate Fermentation and Digestion are conco- a Bone. ed into wholesome Nourishment, but when by whigh a degree of digestion they become fretagand corrofive, they destroy those Parts they ight to fustain; fo the Sulphureous Parts of Fir rees, by their Balfamick Parts, supple the briteParts of the Timber, whilst in their Natural ate, but when by fire, their Parts are put into violent fermentative Motion, they presently deroy it.

Thus by the external Influence of corrofive How a Caamours the Substance of a Bone may be maderies is proarious, but when by grofness, or any other Acci-duced by an ent, the sweet oyly Mucilage happens to obstruct Cause. twixt the Lamina of the Bones, it presently

propts and grows rancid, and frets and putrifys esubstance of the Bones.

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But the Bones often grow foul and carious, by Other Conther Accidents than those which Nature her self curring and subject to, as by being exposed to external accidental ir, by which means the Superficies is not only Causes of a ternal cold chills and coagulates the Oyly Muis means occasions an Obstruction, and conselently putrifaction and erosion, which produces Caries.

Of Ulcers with Caries in the Bones. Par.II.

A Caries may likewise happen, when for want of due care, by a Wound or Bruise eroding Humours are collected, and corrupt the Bones that lye under them, or a Caries may also be occasio. ned, by the unskilful Use of external Applica-

The Diagnosticks.

The Signs of a Caries are various. If the Bone be bare, and it appears white and porous, it is Sign the Caries is deeper than when it is black and hard. If the Bone lye deep and so that it cannot be tryed with a Probe, if it be carious, the Matter that flows from it will be fætid and ovly. If a Bone be much corrupted, the Matter will be fætid, and the bone fink under the Probe. When the Bone is covered with flesh, if that Flesh be lax and white, it is a Sign of a Caries, especially if the Matter be fætid and oyly. If Ulcers are of long Continuance, or hard to Cicatrize, and subject to frequent Eruptions, a Caries may be fuspected.

The Prognosticks.

Ulcers with Caries are difficult to Cure, and more or less dangerous, as the great Joynts or heads of the Bones are affected, where Medicine proper to exfoliate, cannot fafely be applyed. In the Cure of Ulcers with a Caries, a Regular

tion of Cure Diet is to be observed, and since the Ulcer can and first in not heal till the Caries be removed, care must be respect of taken to separate the Cariosity as soon as possible but for as much as in doing of that the vition Excrement of the Ulcer will be apt to disturb the aid sep. Cure, Care must be also taken to correct the Quantil. A lities of the peccant Matter that offends the libre not cer, and in order to that it will be requisite to expople make a sufficient discharge, first by Bleeding, and ly'd, then by proper Purgatives, by which means the und plantity of the peccant Matter being discharged liatin and the Vessels emptyed, there will be more room ith do for Alteratives to correct the vitious Qualities of ips of the

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the humour remaining in the Mass of Blood: and a large Influx of Humours upon the Ulcered Part will be prevented, and the Caries managed

with less Interruption.

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The Body being thus prepared for the Work, What is to it will be requisite to lay the Carious Bone bare, be done in that proper Medicines may be applyed to it, to Respect of promote Exfoliation. To which end, if the O-the Caries ifice be small, it must be enlarged, and the roten flesh, either scraped away, or consumed by Escharoticks, according to the extent of the Caies; but if large Vessels, Nerves or Tendons lye athe way, as in great Joynts and the hands and eet, the Ulcer must be dilated with prepared punge or Gentian Root, till the Caries be laid are; but if the Vessels or Tendons lye so, that he Caries cannot be laid bare without dividing hose Parts, the Inconveniency on both sides is to e considered, and the greater Evil to be avoided, nd the Vessels divided, or the Caries neglected ccordingly.

The Bone being laid pare, the confidered, and epth of the Caries is to be confidered, and hether it be hard or foft; as likewise the Nawhether it be hard or soft; as likewise the Na-lar ure of the Bone affected with it, and Medi-ines or Manual Operations, to be made use of be coordingly; As by Rasping or Actual Cautery. If the Caries be superficial, moderate Medi- What is to one mes will dispose the Bone to thrust out a Callus be done in

the id separate the Caries, as rad. ireos peucedanum, a superficid. Aristolochia, myrrh. aloes, &c. But if these al Caries is renot sufficient Euphorb. unguent. Agyptiac. ol. deep. and ly'd, but care must be taken to defend the the bund parts from their Acrimony. These Expendiating Medicines may be apply'd to the Bone ith dossils of lint over them, to distend the so ips of the Ulcer, and defend the Bone from the

Of Ulcers with Caries in the Bones. Part. II. 202

the Moisture that might fall upon it from the Ulcer, which would hinder exfoliation, and corrupt the Bone; it being necessary in order to exfoliation to keep the bone dry. Where the bone lyes, fo that these Medicines cannot be well apply'd in the form of powder, they may be used in Spirit of Wine or mixed with Unquent, Agyptiac. or in the form of an Injection, as R. Symphit. Maj. Gent. Aristolochiæ rotund. et long. rad. ireos ana 3i. Fl. ros. rubr. sumach. balust.ana 3 s. coq. in vin. alb. ad toil Colat. add. Spr. Vin. 3ii. mel. Resat. Ægyptiac. q. s. But very often if a Caries be but superficial, Nature her self will exfoliate without the help of Medicines, provided the Bone be kept dry.

The Spongy Bones in the Hands and Feet are to be kept bare with Dossils, as far as Carious; and if the whole be affected, it will in time feparate, but will more speedily, if hastened and dryed by an Actual Cautery. If the bone be carious only in the Middle, the carious part Unque may be broke away with a pair of nippers, and ame of the part dressed with the milder Exfoliators, and med, in a little time the Caries will separate, and the hen t ting ends of the Bones will be united by a Callus.

ends of the Bones will be united by a Callus.

Rugins or If the Caries be in great Bones, and deep, ill the actual Cau- and the Influx of Matter confiderable, the best he Dotery when way will be to make use of Rugins or Actual Cautery. If it may easily become at to scrape, napple scraping is to be continued till the bone appears with The A Caution firm and of a ruddy Colour, but care must be But in Scraping taken lest you proceed too deep, and penetrate hit of a to the Marrow it self. When the Caries is scraped away the mild exsoliators above mention to the Rug are proper, or R. Terebinth. clar. Ziv. Gum. Elem Gaute Zii. Rez. pini. Mastich. ana Zvi. Thuris Saro or the coll. ana Zii. M. super ignem. apply it warm on.

coll. ana Bii. M. super ignem. apply it warm on. upon Lint and in a few days a Callus will begin

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Ch. VII. Of Ulcers with Caries in the Bones. 203

to flew it felf in small grains; and the small inequalities of the bone will separate and rise upon the Callus.

But if the Caries lye fo deep that it cannot be ActualCauscraped, it may be confumed with Actual Cau- tery when tery, in order to which, if the Ulcer be narrow, to be apa Canula armed with emplaster, or oyled Cloath, Ply'd. to defend the flesh, is to be placed upon the Cacious bone, and the Actual Cautery to be apply'd through it, so often as is necessary to confume the Caries; the Canula being taken out to cool and the bone being cleanfed whenever the adual Cautery is renewed; upon the application of which, as the bone is more or less rotten, the humour will spurt out, the first time, but will be afterwards Dry, and the Bone may be perceived firm. This being done dress the bone How the with the whites of Eggs beaten up with the Bone is to Mucilage of Quinces extracted in aq. Germin be dress'd per Quero. and the Ulcer and Scorched Lips with after the actual Caural Indian over all; which dressings are to be contimed, till the heat of the Parts is abated; and the hen the bone is to be dress'd with mild exfoliting Medicines, and the Ulcer kept open, phill the Exfoliation is cast off; then leave out the Dossils and the Ulcer will easily incarn and licatrize. If the Lips of the Ulcer be blistered, pe, napplying the Cautery, they may be dress'd with Unguent. alb. or Tutia.

But there are some Bones which will not adate it of actual Cautery, as the Bones of the Head, and Back, the latter of which will neither bare in the Rugin nor sharp Medicines; nor is the actual Cautery to be applyed to the Sternum or Ribs, and or the Os Calcis without a great deal of Cautery on.

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Thus much being faid of the method of curing a Caries; fince in the beginning, we have shewed how a Caries may be occasioned, it will not be amiss if we endeavour to shew how a Ca. ries is cast off, and how external Applications promote exfoliation and the Generation of a Callus.

How Exfo-

Since then, a Caries is a Solution of Continui. listion is ty made in a hard part, as an Ulcer is in a foft performed. one, by Erosion; and that the eroding particles consume the folid parts, and corrupt the Natural Juices betwixt the Lamina of the Bones, we consider the eroding putrid humour to be comparatively the same as the corroding Humour in an Ulcer, which as long as uncorrected, still proceeds to corrode the parts under it; and as the corrolive humonr acts in corroding the Bones in a fimilar manner, fo the Carious Bone may be confidered as the fæces of the corroded Vessels; and though it adheres to the found Bone, yet is not the adhesion very firm, since the continuity is in a great measure destroyed; fo that in a Superficial Caries the corrupting and Corroding Qualities of the Humour being corrected; Nature is easily assisted to separate the Slough and make an Exfoliation of the Ca-But when the Caries hath penetrated deep, the adhesion is stronger, being fastened in so many places, that Nature without the help of Cautery is not able to raise so great a Burthen, but when part of that difficulty is removed, she easily separates the rest.

But to make it conceivable how Nature sepa-How Medicines pro-rates this Caries, and how Medicines contribute mote Exfo- to assist her, we are to consider, besides the Naliation. ture of the Caries, the Qualities of Medicines, which appear to be either Refinous and bitter Aromaticks, as rad gros Aristolochia, Aloes, &c.or

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oleofe Aftringents, as ol. garyoph. and Egyptiac. Now as the Humour is acrid and corroding we suppose, that the Rezinous parts of these Medicines mixing with the sharp corrosive humour, duil the Edges of them, and by entangling them amongst their smoother parts not only inspissate and thicken this Humour, but prevent it's proceeding to corrode the Bone, so that it's form being changed by this mixture, it loofes it's Qualities, and is no longer eroding. And whilft the Rezinous Qualities thus exert themselves, the Bitters help to prevent putrefaction, by preserving the mixture of the altered Humour; and the Aromatick Effluvia penetrating further, excite and cherish the Natural Heat in the found parts. which being thus affifted and no longer affected with a Corrofive Humour, the found Veffels iffue out their Natural Juices; which fince they cannot be received by the eroded Bone, whose Texture is destroyed, and pores full of this new mixed humour, they consequently interpose betwixt the found and corroded parts, and io make a feparation of the Caries and an Exfoliation.

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From hence it appears how Rezinous and bitter Aromaticks affift in loofening a Caries, and making an Exfoliation: In the next place we shall confider the Effects of oleofe and Astringents; which will easily be understood, if we consider, that oyly Bodies which are not subject to grow Rancid, as ol. Garyophillor, interposing betwixt acrid and fretting Particles will abate and alter their corrofive Effects; and fince by altering and checking their eroding Parts, they make the Humour inoffensive to Nature, the Aromatick Effects of this Oyl, will likewise excite and renew the Natural Heat, and put Nature in the way to exert her felf: And though Agyptiacum hath no Aromatick Parts, yet by it's Astringency it both corrects

Of Ulcers with Caries in the Bones. Part. II.

corrects the eroding Quality of the humour and prevents Putrefaction; and as Astringents bind up the Pores, they feem to preferve the Natural Heat of the Parts, by repelling and confining it from flying away,

How a Calmed.

Thus much of the Separation of a Caries, and his is for the promoting of an Exfoliation. It remains that we should shew, how a Callus is formed. A Callus then in a Bone seems to be a Natural Sup. ply of Substance to fill up what was confumed by erofion, as fielh is mide in an U cer to mike up the loss of substance there; which we suppose to be generated much after the same manner, only the apposition of parts in a Bone is flower, and thrust out by degrees, the Number and Proportion of Vessels in respect of the Part being much more in a fleshy Part than in a Bone. I shall not need to transfer and repeat what I have faid in the second Chapter of this second Part, of the nature of Incarning, but as I have there observed that upon the Use of Detergents, the Blood seems to stand in drops in the Extremities of the Veffels, fo in the beginning of a Callus it first difcovers it felf in red specks upon the Part it rifes from, which confirms me in my opinion the more in what I have faid of the Nature of Incarning, viz. That the New flesh is formed by the Appofition of the parts of Blood. And that a Callus is so too, is evident from the Colour of it's first Origin and Beginning, which, as it is red, mult needs be supplyed by Vessels which conveigh a Substance of that Colour, and fince it comes from the Sanguiferous Vessels, it may well be presumed, that a Callus is formed by an Apposition of the parts of the Blood.

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Since then a Callus is generated by an Apposi-Difference tion of the Parts of Blood, issuing out of the Ca-betwint the pillary Vessels in the Substance of the Bones, all of a Callus one as the flesh that fills up a Wound or Ulcer, and of new rifes from the Vessels in the Substance of the Flesh. Flesh; we shall briefly compare their Differences and endeavour to account for the Reason of those Differences.

And first the Flesh in an Ulcer seems to grow faster and looser than that which hardens into a Callus, first, because the Blood Vessels are not only more plentiful, and the Moisture greater; but also the Apposition of Parts is quicker proportionably; and confequently the Vessels have

not fo much time to harden.

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Secondly, the Flesh which fills up an Ulcer continues foft, whereas the other grows firm and t the last hard. The former being less confined, s foon as it hath filled up the Cavity of the Ulcer, terminates in a Cuticle or thin Callus; whereas in heCallus, formed inBones, the Vessels are formed t last, they are uncapable of receiving any more y degrees and gradually compress each other, till blood, or of extending themselves any further, and hen the Humours in them, not finding fo free a egress as in the Substance of the Flesh, reductoegress as in the Substance of the Flesh, reducto-y Vessels being not so ready to receive it, it conenses and coagulates and hardens into a Callus infillong with the Compressed Vessels, which are ore closely confined and have not so much liber-to extend themselves. When a Callus rises om the Extremities of two bones, they are graom ually prolonged, till at last meeting, the Blood rusting out on both sides mutually adheres, and ordenfing and hardening together, forms a per-& Continuity. If the Vessels thus hardening, the Blood condensing forms any Vacuity bevixt their Parts, it is instantly supplyed with

208 Of Ulcers with Callous Lips. Part. II.

a sufficient Quantity of Matter to possess the space, which condenses and indurates with the Rest. So a Scirrhus is indurated by a fresh supply and apposition of Parts.

CHAP. VIII.

Of Ulcers with Callous Lips.

The Cause of Callus
Lips.

The Cure.



Hen Ulcers are long in Cure, they frequently contract Callous Lips which are hard and livid.

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The Cause of this Callosity is a hot humour mixed with Phlegm which when it happens to stag nate about the Edges of the Ul

cer, the hot Parts evaporate and difintangle themselves from the Phlegm, which for want of a Liquid to dilute it condenses, and hardens and forms a Callosity, sometimes it is condensed by the influence of the Air, or by cooling and drying Medicines.

The Diag- They are evident by their own Appearance, an make the Ulcers they attend difficult of Cur which cannot heal without a Removal of the

Callofity.

In the Cure of these Ulcers the Callous Lip are to be remedied as soon as possible, or key down by compress and bandage, that they ma cicatrize with the Ulcer. In order to the R moval of them Emollients and Discutients as convenient; as, Rad. et fol. Althewlilior. make sem. lini et sanugreci, fl. Chammelilot. Sambu he

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with which the parts are to be fomented, and embrocated with ol. amygd. dulc. Unquent. de Althan, ol. lil. Lumbricorum. The Lips of the Ulcer being thus fomented, and Embrocated Apply Ceratum Refrigerans Galeni, Emp.de Mucilag. de Ranis cum Mercur. Diachyl. ireac. Or a plate of Lead rub'd with Mercury; or Cerus. and alx lot. made up into a Paste with axung porcin. with Compress and Bandage; but if Bandage anont be conveniently made, the callofity must e removed either by Caustick or Knife, and ealed even with the Ulcer. As for the Reason fthe Method here prescribed by Lenients and mollients, and how they perform their Efhey ests, will appear from what hath been already in aid of them in the first Part of Tumours in Geeral, and of Scirrbus.

CHAP. IX.

Of Putrid Ulcers.

Leers made fordid by the fluxion The Origiof fharp acrid Humours, as the nal of Pu-Sordes increases degenerate in-rid Vhers. to putrid Ulcers, the matter growing fætid and rotting the Flesh

The Caute of these Ulcers is an ill depraved The Cause. als of the Serum, which deposes an acrid up Humour in the Ulcer, complicated with legm. The hot Humour occasions an Intempes in the part, and the Phlegm renders the

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Ulcer fordid, where the sharp acrid particles lodging in the fordes, corrupts it and fo the mitter acquires a malignant Quality. Sordid Ulcers are fometimes occasioned by the ill ale of Digestives thickening the Excrement of the Ulcer too much, or by the use of too strong detergents; but when these occasion putrid Ul cers there is a precedent ill Disposition of Se rum in the Blood, which disposes these Ulcer to become Putrid. But sometimes they succeed malignant Fevers, the malignant humour grow ing groß and thick, its thinner parts, which diluded it, being confumed and spent by the heat of the Fever, and apt to obstruct in the external parts of the Body; where this acrimo nious Phlegm presently Ulcerates, and produ ces a Corrosive putrid Ulcer.

The Diag- The figns are a viscous tough Excrement mosticks. with great heat and pain; as the Corross Quality and the Sordes increase, it changes it Colour, and the Ulcer corrupts, and the ma

ter flinks.

The Frog. The Sordes hindering the discharge of Cornosticks. roding Humour, it corrupts the part the more violently, and renders the Ulcer more putil and if the Putrefaction be not checked, it to minates in a Gangrene and Sphacelus.

The Care In the Cure of these Ulcers, the ill disposition Internally, of the Humours is to be corrected, first by Convenient Diet; and evacuation to be made not only by bleeding, but the Viscous Humour are to be discharged by proper purging Ma

cines, as also the Disposition of the Blood is be corrected by proper alteratives, and a decot on of Sarsaparil. Lign. Guaj. Sussaphras, &c. 1

common Drink.

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External Applications are to be varied, ac- Externally. ording to the Quality and Circumstances of he Ulcer. If strong detergents occasioned the licer to grow fordid, Unguent. Bafil. cum Mercur. Pracipit. or Diapompholyg. mag. with Grot. Refrig Galen. and a compress wrung out Oxycrate may be proper. If Lenients occasion'd he Sordes, fill the Ulcer with Precipitate, with a ledgit of some moderate detergent over it, nd the third day, when you are to dress it, he fordes will separate in a slough, and then fter the use of moderate digestives you may inarn. In Common putrid Ulcers, Merc. pracip. ub. 3ii. Mundif. Paracel. 3i. with alumen. uft. nd Unquent. Apost. is a proper detergent.

If the Ulcer be putrid, a Decoct of Absinth. ford. &c. in a Lixivium will be proper to wash he part, which may refist putrefaction, or Agypac. dissolved in Spirit of Wine, the Agypt owerfully depressing the acrimonious corroding arts, whilst the Spirit of Wine preserve the he Natural heat. And when this is done, the arts externally are to be defended from the

oflux of Humours.

If the Ulcer be so corrosive as to undermine le Lips, and render the Flesh soft and lax it to be treated as a Phagedena. If it tend to ortification the same methods are proper as a Gangrana and Sphacelus.

> P 2 CHAP.

CHAP. X.

Of Phagedana, and Noma.

Definition of a Phage dana.

of a Noma



Phagedæna is a Corrolive Ulcer with tumify'd Lips consuming the adjacent Flesh. eal

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Noma is a deep Corrofive Ulcer, which spreads and consume the Flesh without Tumour, at

tended with Rottenness and Putrefaction.

the one hath Tumour without Putrefaction, and the other Putrefaction without Tumour. A Phagedæna differs from a Herpes, that beginning in the Skin with little moisture, and this affecting the Flesh, and abounding with Matter.

These Tumours are occasioned by a deprave of the Caufe; Corrolive Crass of the Humours, which by long continuance become Habitual: How Corro five humours are generated in the Body fushio ently appears from what hath been faid already in the Chapter of Cancers, and elsewhere, that there is no need to repeat it here, all that shall add is, that as the Humour is more Com five and virulent, it produces an Herpes Phageda na. Noma or Cancer. Only in a Phagedan the Corrosive humour seems to be complicated with Phlegm, which clogging the Vessels in the Ulcer, fo that they cannot discharge themselve freely, they swell and tumify the Lips of the Ulcer, whereas in a Noma the Humour is fo ver corrosive, that it presently consumes the Part

it affects, spreading faster than a Phagedæna, and is full of a thin gleet, the ferum of the Blood eafily issuing out of the Extremities of the Vesfels and thus preventing Tumours.

The Signs of these Tumours are apparent from The Diagtheir Description. As to the Prognosticks they nostick and are more or less malignant and dangerous according to the degrees of Virulency of the Humours, and as it is more or less Habitual. They frequently terminate in a Sphacelus or a Cancer.

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In the Cure, A Regular diet, and fuch as may The Cure. breed good humours is convenient. And to orrect and discharge this virulent Humour puring is proper, and fuch Medicines as may cored the malignant Crass of the Blood and Serum; n which cases Mercurials are convenient, and nedicinal Drinks made of Sarsaparil. Ligh Guajac. ad. Chin. Saffaphras, Santalum alb. eitrin. raf.C C. bor. &c. External Applications are to be vaied according to the different Qualities of the Corrofive humour. If the intemperies be hot, cool ig and astringents are proper to allay theheat, nd imbibe and absorbe the Corrosive Humours thich fret the part. As Unquent. Tutia. de Plumo, de calce, et de Litharoyro. If these are too reak, the Lips ought to be scaryfy'd, that the umour may have vent, and applications have a etter Effect upon the Parts; then washing the licer with ag. Calcis, ag aluminosa, or decost. lantag. Equiset. rubi. fl. ros. rubr. balust. N. press. gallar. &c. in Chalybeat Waters, sprinkng the following powders in the Ulcer, viz. ulv. tutia. C. C. ust. pulv. ostreor. combust. cort. anator. or R. Unquent. diapompholyg. 311. bol. rmen. sang. dracon. balust. ana 3/s ol ros. q. f. Unquent. with a compress wrung out of me Astringent decoction, when these Ulcers edressed thus, they are not to be opened over

Part.II: once in three or four days, the Natural heat of the part being destroyed by exposing them often to the Air.

If the Ulcer Putrify and corrupt, Detergents which also correct the acrimony of the eroding humour, and prevent further Putrefaction are proper, as Unguent. Agyptiac. pracipitat. or the putrify'd Flesh is to be consumed with Escharoticks or Actual Cautery, which also strength. ens the Tone of the Part, by recovering the Natural Heat

CHAP XI.

Of Ulcers with Varices.

of beCaufe



F a part affected with a Varix happen to be ulcerated, it mul be occasioned either by the Acrimony of the Humours, of some Fall or Bruise, and become inflamed, Painful and To mify'd.

As to the Cure of a Varix it hath been delive of theCurered in thefirst part of Tumours. And as for thell cer digestives or detergents are to be used as the is occasion, the Excrement being sanious or so If the Ulcerations be Superficial they ma be dressed with Unquentum Tutia, plying a mixture of Natritum and Populeon will Compress and Bandage. If digestives are nece fary, Basilicon with pracipitate may be made use of which will also deterge; fomentations are all

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proper, made of Astringents, to restrain the Influx of Humours and correct the sharpness of them. The Ulcer deterged, incarn with the following. R. Thur. aloes ana 31. Assa fasid 31. s. nel. despumat. 3vi. M. f. Unquentum. The llcer incarned cicatrize with proper Epuoticks. If the Ulcer be in a part where a Laced stocking sleeve, & c. may be made use of, it is much better than Rowling, since it makes a smooth and Even pressure, and not only resists he influx of Humours in the time of the Ulcer, ut supports the weak part and prevents a fresh elapse. If in these Ulcers, the Body be Plethoick and full of Humours Bleeding and Purging vill be necessary in order to the Cure.

CHAP. XII.

Of Sinuous Ulcers.

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N Ulcer is called Sinuous from Description its Hollowness, and owes it's and Cauje. Origin either from the long Retention of Matter, which grows corrolive, and not having vent, at least fufficient discharge, the matter extends its Cavity

etwixt the Interstices of the Muscles; or the Scilation of it may incline it to be Sinuous, when appens in such a part, that the matter presses pon theInterstices of the Muscles, and inakes it's ray betwixt the parts depending, for want of oodCompress; or anUlcer may be made Sinuous,

P 4

when an Abscess deep amongst the Muscles.in any of the Viscera thrusts it's Matter externally amongst the Muscles of the back or Abdomen, coc.

The differenies.

These Ulcers differ as they are long, deep or Superficial, or as they have only one or feveral finus's; they differ from a Fiftula, that being callous in its Cavity, and a Sinuous Ulcer only about the Edges, and not always Callous there.

The Dia nofficks.

Sinuous Ulcers may be known by the Nature of the discharge, the use of a Probe or Wax Candle; and the largness of it may be Judged of by the Quantity of the discharged Matter.

7be Proc. nosticks.

Sinuous Ulcers of long Continuance are diff. cult of cure, the part being weakned by the long Part influx of Superfluous Humours. If the Sinus run under a Joynt Nerve or Tendon, so that it cannot be fifely laid open, the Cure is the more difficult. If the matter be transfered from at Internal part, the part within must be cured be fore the Ulcer will heal. If the sinus and it Discharge be small and may safely and easily ball and open, the cure will be the easier. If the figure Muna of an Ulcer be orbicular, it retards the cure and ought to be altered if possible.

The Iventi. In the cure there are four Intentions. The se of on of cure. first Respects a due Regimen in Diet, and the rel impin

The second Repects the Disposition and Crass of the Humours, which are to be partly discharge estraic by bleeding and purging as Occasion shall require the humours remaining are to be corrected with the Superstuous Moisture is dryed up and discharge which is the Superstuous Moisture is dryed up and discharge which is also by alteratives which may cleanse and purish the indisposed humours. the indisposed Humours.

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The Third Intention is to prevent the Influx The Third. of Hamours into the part, by Revulsion, Repul-

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The Fourth Intention is to cure the Ulcer and The Fourth remove the Accidents that may attend it, as Pain, Intention. Inflammation, &c. The first thing to be taken care of is, that the matter may have a free dif charge; therefore if the Orifice be in the declining part of the Sinus, it must be enlarged to give sufficient vent, but if the Sinus runs below the Orifice, another is to be made by Knife or Caustick in the most declining Part; and the inus above will foon be disposed to heal. When the Sinus runs under Vessels, where a New Orifice cannot the made for it's Discharge, the Position of the part is to be altered, so as to dispose it to run out of the first Orifice; and the matter is to be

forced out of the Sinus by Compress and Bandage of towards the Orifice, to promote it's discharge.

The Ulcer being thus disposed to discharge the be matter that flows from it, as it is more or less it bul, so Detergents are to be made use of accordingly strong or weak, as Unguent. Apostolor. Mundificativ. Paracels. ex Apio. without or with an Addition of pracipit. rubr. If the Sinuosity equires injections, the following may be made The sife of R. Summit. Cent. min. agrimony, Equiset. rel impinel. and M. Rad. Aristolochia rotund. irid.
ing ma 3ii. myrrh Sarcocol and 3iii. coq. in aq. font. bii. Collat. add. Spin. Vini. Ziv. mel. Rosar.q. s. rall Drul. Terebinth. and Tinet. Myrrh injected will rge estrain by their Astringency the influx of Hunine nours, and dispose the Ulcer the better to agwith utinate. If the matter flows from an Abicess which within the Body, Injections are not convenient, icha accept there be a way ready for their discharge; ede which may be made by a Canula; or a Pea hungat a puril bread, by which the Orifice will be kept open till the

218 Of Sinuous Ulcers and Fistula in AnoPart. II.

the Ulcer within heals, and then if you leave out the Pea, the External Ulcer will heal also.

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Whilst the Cure is thus promoted by the use of Internal Medicines the part is frequently to be somented with a Decoction of Summit. Absimble Marjoran. Hyperici, beton. sl. Cham. ros. rubr. balust. bac. Myrt.&c. in Wine or Water, adding Spirit of Wine or Brandy to the decoction, which will preserve the Natural Heat of the part, and strengthen it's Tone, and help to dispose the matter in the Ulcer the better to digestion, and incline the parts separated by the Sinuosity to unite and recover their Continuity.

CHAP. XIII.

Of Sinuous Ulcers and Fiftula in Ano.

The Origin
of Fistulas



Inuous Ulcers in Ano, by their long Continuance become Callous, and so degenerate into Fistulæ. They proceed either from Abscesses made by the Piles of Phymous Tumours about the Muster States.

cles of the Anus.

Those which proceed from Internal Piles, gradually extend their Sinus betwixt the Coats of the Intestinum Restum down to the Verge of the Anus, where they discharge a thin gleet at a small pin-hole, at the first, without any pain, but in time is attended with Itching, and sometime Excoriation and Rhagades. These sinus's at the

Ch. XIII. Of Sinuous Ulcers and Fistula in Ano. 219

laft spread outwards, and grow Callous, the External Orifice being Small and Contracted as well as hard, scarce admitting the entrance of a small Probe.

These Fistula's which are occasioned by Phymous abfcesses, gradually infinuate the matter hetwixt the Interstices of the Muscles Glutai, or towards the Neck of the Bladder, and sometimes into the Pelvis: these are very painful, and discharge a purulent matter according to the largeness of their Cavity; and at the last grow Callous and Fiftulous.

These Fistula's are Discovered by the use of a rhe Diagprobe which if passed into the first kind of Sinus's, nosticks. you may perceive it all along to the Orifice which was first made by the Piles, if you put your finger up the Anus. The other kind difcharge their Matter by Stool at the first and at length make their own way out externally more or less distant from the Anus, according to their first Origin in the Intestins.

Sinuous Ulcers arising from the Piles are health- The Prog. ful, and ought not to be cured if they are not very nofticks. roublesome and painful. But those that follow Phymous Abscesses are dangerous and difficult of Cure; especially if the Orifice lye far from he Anus, so that they cannot be fafely laid

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Sinuous Ulcers in time grow Callous. If the Callosity runs superficially upwards by the Restum uta little way, they are easily cured; but when hey are extended so far that they cannot be laid the pen the whole Length, the matter flowing from he Upper part, will hinder the Lower part from bu caling. If a Fistula penetrate beyond the Musles of the Anus, and be cured by opening it, the the etentive faculty will be impaired; and if the ftroyed

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stroyed. In Bodies which are Cacochymical, that ill disposition is to be remedied and cured, before the Fistula can be either safely, or cured at all.

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The Pallia.

The Cure of these Fistula's is either Palliative sive Cure. or Perfect. The Palliative cure is of use, when the Fiftula being neither painful nor troublesome, ought to be kept open for the discharge of peccant Humours, the Sinus being small and terminating in the Verge of the Anus. If the Orifice incline to tumify and obstruct the discharge of the matter, by the Contraction of the Callus, that Callus is to be removed by a Caustick; and when the flough is separated the Orifice may be kept open as an Issue. To prevent Excoriation by the humour that flows out, a pledgit of tow may be kept close to the Orifice to imbibe the matter. or the Pledgit may be spread with some Lenient Unquent.

Of the Perfed Cure.

In order to the cure if the Sinus be some distance from the Anus; it is first to be laid open to the Anus, and cured again, before that in Ano is to be divided. But first the Body is to be cleanfed of all Chacomical Humours which might flow to the part and disturb the Cure; which is to be done by Bleeding, Purging and Internal Alteratives. A Regular Diet is al fo to be observed, not only to prevent the flux of Humours to the Part, but also to keep the Excrements of a due consistence, that the Cur may not be disturbed by them in fre quent going to stool; therefore if there bes Looseness, that must first be cured, before the Sinus is divided.

Ch.XIII. Of Sinuous Ulcers and Fistula in Ano. 221

A Fistula in Ano is to be laid open either by A Fistula Ligature or Incision. The Ligature is made of to be laid wisted brown thread or stiching filk, which is open by not to be too thick lest it bruises the Flesh in cut- Incision. ing it, The Needle with which it is paffed, ought to be answerable to the Circumstances of the sinus. When the Intestine is penetrated by the sinus, the Ligature may be passed with a Leaden Needle, or a Silver-wire Probe, or a fearching Candle. If the Sinus do not penetrate, the Needle nust be sharp at the end to penetrate the Intestin: nd pliant, that it may answer the turning of the inus. If the Sinus lye high and be crooked, the Needle may be passed through a convenient Caula which will Strengthen and Support it, and revent it breaking as it is thrust through the

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ntestin. In order to the Performing of this Operation, The method heFistula is to be searched with a Probe, and your of performinger to be put up the Intestinum Rectum, to dif- ing it by over the distance of the Sinus. If the Sinus be reight and the Callous confiderable, it is first be dilated with Gentian Roots, and the Callus be removed with Cathereticks; but if that fide ext the intestines only be Callous, the Callosity to be divided after the Fistula is laid open. order to lay the Fistula open the Needle is to passed up by one hand, while the point of is to be directed by the other, which is to be ove the point of the Needle whilst it penetrates. the Needle be passed through a Canula, the anula is first to be placed with the end of it ainst the finger which is in the Restum, then other holding the Canula pass the Needle rough the Gut, and as it is brought out by your gers the Canula is to be pulled off, the Needle th the Ligature being brought out of the Anus. hen cut away the Needle and tye the Ligature,

222 Of Sinuous Ulcers and Fistula in Ano. Part.il.

first with a single and then with a bow knot, placing a peice of Cloth or a Plaister betwixt the Skin and the Ligature, to hinder it from cutting on the outfide, then place the Ligature on one fide that it may be out of the way of the Excrement If the parts be heated in the 0. going to stool. peration, they may be cooled with ol. rofar. cum Vin austero, or an injection of Decost hord cum fem. Gydon. applying Externally Unguent. rofat. or popul Every fourth day the Ligature is to be loofed and tyed torter till it is cut through If the Lips for parated in the Anus lye high, they are to be taken down with a Caustick, that the Cicatrix may be finooth.

cilion.

To lay the Sinus open by incision, a pair of prob of laying it scissors are made use of; but care is to be take open by In-left the foulds of the Rugous Coat of the Redin If the Sinus be short this is the best way being most speedy; but if the Sinus be deep th inner Coat will be more in danger of being cut besides the parts divided by incision will be apt heal up before the Sinus is filled up, whereas, whe they are divided by Ligature, the parts contule by such a Division are not so apt to cement, by gradually heal above, as the parts are divided be low.

If there be any Excrescences about the Anus they are to be taken away beforetheSinus is div ded, lest the pain occasioned by the division, show cause them to swell and tumify, and disturb the Cure.

Whether the Sinus be divided by Ligatured Incision, when it is laid open, it is to be digested incarned and cicatrized as in other Ulcers.

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CHAP. XIV.

Of an Azylops.

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Gylops is an Ulcerated Tubercle Descripiiin the internal Canthus of the on. Eve. When it is without Ulceration it is called Anchylops. When it is Ulcerated it is apt to growSinuous, and is called Fiftula

achrymalis. It is sometimes Callous and souls

e Bone of the Nose.

The Cause of this Tumour is the same with The Cause. hers which affects the Glands. It is made eier by Fluxion or Congestion; And frequently

cut acceeding the small Pox.

When it is made by Congestion, the Tumour The Daground without discolouring the skin. If they nosticks. oceed from Fluxion, they are attended with ain, Inflamation and Redness. Sometimes it beas with a weeping in that corner, and discors it felf with a redness in the Eye; and if pref dupon, it iffues out a mixed matter; part of hich is not unlike the white of an Egg. It metimes corrupts the bone, and is discharged rough the Nostrils, having a fætid Smell. A Fiftula Lachrymalis is very difficult to cure The Prog-

eparts being loofe and spongy, and the Eye noficks. ry Sensible; which makes it very subject to in and Fluxion, especially when sharp Medines are applyed. Those which are of small

nding and open are easy of Cure. If the Gland Ulcerated and the Bone Carious, the cure is

ore difficult.

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Cure.

The Indica-

Externally Repellents are necessary, which may sernals are prevent Fluxion. As aq. portulac plantag. Lattuc Equifet. Solan. Sperm. Ranar, cum bol. Armen.La pis Calaminar, and Sachar. Saturni, &c. making derivation also by Empl. de Mastich. Tacamaha &c. apply'd to the Temples. If the Tumou increase with pain and tension, it may be fomente with Discutients. As summ. Absinth. fl. Sambus Rute, or Cataplasms may be made by an Additio of farin. Orobi Lentium, &c If it tend to fin ration, digeftion may be promoted with Emo lient digestives. As Rad. lil. muc. sem Aliba fanugrec. lini, farin. tritic. axung. porcin. & The matter digested, they are to be opened a

of the Blood, or fuch Humours as may affect the

A Caution ther by Incision or Caustick. If they be opene in applying by Caustick, care must be taken to avoid huitin Tutia Causticks. the Edge of the Eye-Lyd, it being impossible t remedy it, and the Eve for the fature bei 2 feb

ject to water. When the Tumour is opened, gest with ol. rosar. cum alb. cv. apply'd on Pledgit, with Cerat. Galleni over it, and a Com re wrung out of some convenient Anodyne, Aim gent water, as ag. rof. fperm. Ranar. &c. Wie digested, deterge with mel. Rosar. or Sw der Siccis or B. mel. commun. 311. virid. arts 31 Sp Vin. Biv. cog. ad tertie part. confumpt. balan. citr. and 31. Thur, myrrh and 31. Camph. gr. ii. infund. in ag. R

alb. ana 3iv. cog. ad tertie part. confa will dispose it to incarn and cicatrize Tutia or ag. Calcis, with good Compre the

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If the Ulcer be Fistulous and the Orifice small, itis to be dilated with Gentian Roots, and the Callofity is to be destroyed with detergents, or R. fol. Ruta, chelidon min. agrimon. ana M. fs. infund. per noctem in Spr. Vin. #51s. collet. pro Injectione, after the Injection apply the following upon Dossils B. zinzib. Bil virid. eri Bil. mel. Rosar. Ziiii. acet. opt.Ziv. cog. ad crassitiem. If the Bone be Carious R. Vitriol. ust. Canthurid. abscissis alis et Capidibus, calc. vio. sal. Armoniac. dum. roch. ana p. aq. cum urin. pueri inspissat. Whilst these Medicines are using, the adjacent Parts are to be defended and Fluxion restrained by coolling Astringents.

But the best way is to destroy both the Callo- The Use of ips fity and Caries with Actual Cautery, dreffing Adual the part afterwards, with ol. rof. cum alb. ovi. Camery. the and a Compress dipped in the same over it; then ligest and deterge, keeping the Orifice dilated with a Dossil pressed out of Tinet. myrrh. till the Bone exfoliates; then cicatrize with Unquent.

Intia, with good Compress.



A

SYSTEM

O F

Rational Chirurgery,

PART. III.

CHAP. I.

Of Wounds in General.

The defini-

7he diffe-



Wound is a Solution of Continuity in any Part of the Boomade fuddenly, by any thin that Cuts or Tears, with a division of the Skin.

Wounds differ either as the are great or small, deep or sha

low, streight or crooked, &c. or, according the Nature of the Weapon they are made with as whether it be sharp or blunt, with a Sword

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Differences which are more Essential are taken from the Part which receives the Wound, as whether it be Flesh, Skin, Vein, Artery, Neres, Cartilage, Bone, &c. which differences are nost properly essential, because the Intentions of Cure differ accordingly. Wounds differ kewise as they are Simple or Compound; with a without loss of Substance.

Wounds externally are visible and apparent. The Diag-What Parts are wounded internally will appear nositicks. by the Particular Symptoms that attend them; of which in their proper places, where Wounds of

he several Parts are Particularly treated of.

Wounds are more or less dangerous accord- The Progag to the Nature of them, and their Largeness, nosticks.
and the Parts wounded, as they are more or less
able, and according to the Symptoms and Acadents that attend them; as whether a Nerve,
Artery, Vein, Tendon, &c. or any of the Viscera;
arwhether they be attended with Pain, Inflammaion Hemorrhagy, Gangrene, Sphacelus, Spasnus, &c.

In the Cure of Wounds we are to confider, The Interwhether they are Simple or Compound. In the tions of Cure of a Simple Wound, fince it is a Solution Cure. of Continuity, we are to endeavour to unite the parts separated, in doing of which there are Five

Intentions.

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First, The taking away and removing all Ex-The First raneous Bodies, which interposing between Intention. he divided parts of the Wound, may obstruct he Union and Agglutination of them; as coaulated Blood, Hair, Dirt, peices of Bones, Carillages, peices of Weapons, Rags, Spliners, &c.

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The Second Secondly, The bringing of the Lips of the Wound together, which were separated; which Intention. are to be even, that they may be the better dif-

posed to unite.

Thirdly, The Retaining of them fo, when The Third Intention. brought together, whilst Nature does her part in agglutinating them, and confirming that Cement which may preferve them in their Natural Figure.

Fourthly, The Preserving the Natural Tem-The Fourth Intention. perament and heat of the Part, that Nature may be the better abie to perform her Part.

Fifth Fifthly, The Preventing ill Accidents, which Intention. may pervert the Work of Nature; and the cor recting such Accidents as have already seized the Part.

\$10715 1m Compound Wounds.

other Inten. But if a Wound be compound, and attended with loss of Substance, or Contusion. There are other Intentions to relieve those Accidents If there be a loss of Substance, that Substance must be supply'd by Sarcoticks, which may pro mote incarning, and supply the loss of Substance If Contusion happens, the Contused Flesh mu be converted into Pus by Digestives.

But to proceed to the first Intention in the How the first Inten-Cure of Simple Wounds. Which is the removing tion is to be of Extraneous Bodies. In order to the perform removed. ing of this Intention we are to confider, whether that Extraneous Substance which interposes be twixt the divided Parts, can be extracted or no

also whether safely, and which is the best wa For sometimes a peice of a Weapon or Splint may flick fo fast that it cannot be drawn ou till the Parts about it Apostemate, and the it may be drawn out, or else is cast out

Nature.

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But sometimes it happens, that a Weapon may be so lodged, that it may be dangerous to draw itout, the Patient dying if it be extracted : but where the Extraneous Substance may safely be taken away, the fooner it is done the better and more easily, before the Part is Tumify'd and Inflamed.

tural Vessels which are great and in Nervous Parts; aWeapon is vessels which are great and in Nervous Parts; aWeapon is Nerves, or a bone lye in the way, it is to be ta-out. ken out the same way it went in. But if it hath passed above half through, and there be none of the Vessels or Parts just mentioned, in the way, con it is better to thrust it quite through or make way by incision, than to tear and disturb the parts it went through in the Retraction. If the Weapon nder befast in a bone, it may be loosened by moving the it to and fro, or if it cannot be got out so, it ents ought to be cut out. If it be fast in a Joynt betwixt the two Bones, Extention being made it will come out the easier. And if the Wound was made in any Particular Posture, the Body is to mul be put in that Posture, which will render the Extraction easier.

When the Weapon or other Extraneous Bodies what is to via are drawn out, it will be necessary to let the be done af-Wound Bleed, as the Strength or other Circum-ter the Ex-Wound Bleed, as the Strength or other Circum-ter the Exthe flances may allow; by this means the Blood Extraneous
which was heaped up in the small Vessels will be bodies.

wented, and if any, by the obstruction made by the
well pressure of Extraneous Bodies, was heaped up
and coagulated in them, or in the Wound, it
will be washed away, and all the Vessels clear,
the as well as the bottom of the Wound cleansed,
and Apostemation prevented. When the Bleeding is stopped the Hair about the Wound is to ding is stopped the Hair about the Wound is to be shaved away, if there be any, that it may not disturb Q. 3

disturb the Lips of the Wound or hinder the Applications of Medicines. That being done, the Wound is to be cleansed of clotted Blood with a Sponge dipt in red Wine oxycrate or Water; but if it lye deep and there be danger of occasioning a fresh Flux of Blood, it is better to leave it to be separated and thrown out by Digestion.

How the The Second Intention is to bring the Lips of Second In the Wound together, that they may be ready tension is to unite; and fince all extraneous Bodies are to be pro-be removed, we are not to crow'd in others in the Room of them, by separating the Lips of the Wound with Pledgits or Dossils, which instead of assisting Nature, prolongs the Cure, and occasions ill Symptoms, as Pain, Instammation, and Fluxion.

The Lips of the Wound are to be brought toLips of a gether of adually, and by degrees, that the HuWound are mours contained in the Lips of the Wound
to be may be vented and give way to the Pressure, so
brought to-that the Lips so brought together may be more
gether. easily retained whereas if they were hastily

pressed together, the Bland contained in the

eafily retained . whereas if they were hastily pressed together, the Blood contained in the Tumify'd Lips, not having time to be discharg'd and press'd out, might be apt to Apostemate; of the swelled Lips violently put together, might tear out the stirches. If the Lips of the Wound are grown stiff with cold, they are to be softned by fomenting them with Milk or warm Water, or they may be embrocated with Emollient Oyl till soft enough to be reunited. When the Lips of the Wound are brought together, care mult be taken that they are equal, that they may be united and agglutinated in their natural evenes and smooth, which will sooner be done than when they lye one above another and une qual.

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The Third Intention is to retain the Parts thus How the owned together; which is done either by stich- Third Irtention is to go Rowling, or both together.

be promoted.

If a Wound be small and in a Fleshly part, Flow many and Longitudinal, according to the Tendency sorts of Bar-of the Fibres, it may be retained by Bandage; dage of which there are three sorts. First Incarnative or Agglutinative; Secondly Retentive, Thirdly Expulsive.

The Incarnative is made use of to bring the of the In-Lips of the Wound together, and to keep them carnative in their Natural place, whilst they agglutinate is made. and grow together. This Bandage is stricter than the Retentive, and Slacker than the Expulive Bandage. The Incarnative Bandage is made with a double headed Rowler thus. The middle of the Rowler being placed on that fide of the Part which is opposite to the Wound, the two ends are to be brought together on each fide of the Wound, by which it's Lips will be brought dose; then having taken a turn or two about the Wound, one end is to be Rowled downwards and the other upwards, by which means, the Blood and other Humours are not only preffed out of the Wounded part, but the Influx of Humours prevented. Where it is to be observed, that so many turns are to be taken with the Rowler, as are sufficient to restrain the Flux of Blood, and to defend the Wound from the Influence of External Air. As likewise care is to be taken, not to Rowl too hard, lest you intercept the Spirits, or obstruct the Circulation of the Humours.

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of Resentive Bandage is serviceable only to sastentive Bandage and the dressings, and to keep them close to the dage and bow is is to Wound; for which Reason it needs not be very be made. Strict, nor too slack; for if so, it cannot be call'd retentive. This Bandage is cheisly of use in Wounds of the Head; but may be sufficient in other places where the Wounds are small, and there is neither danger of a Flux of Blood, or of

the Influx of Humours.

of Expul. Expulsive Bandage is made with a Single five Bandage headed Rowler, and is cheifly of use in Fistulous and the manner of and Sinuous Ulcers, to expel the Humours and making it, drive them out of the Orifice, or to prevent the

Sians from enlarging it felf, or to keep the Parts close whilst they unite. The use of it in Wounds is to press the Humours out of the Wounded part if Superfluous, or to prevent the Influx of more. But otherwise it may be prejudicial and obstruct the motion and Natural Influx of the Blood and it's free reflux, by which the part may be deprived of it's Nourishment and Emaciated, therefore care is to be taken that it be not made too When it is necessary to be made, you must begin below the wounded part, and Rowl upwards; first you must Rowl strict, but as you come nearer the Wound Rowl easier; when you come up to the Wound, if you design to press the Humours out of the Part, Rowl easy a turn or two and then Harder, and so continue it up above the Wound to prevent the Descent and Iaflux of Humours.

other forts To these some add sour other sorts of Rowlof bandage ing, as First Fasciam Disjunctionis, by which
the parts are kept as funder, and from preternaturally growing together, as when the singers
have lost the Cutis. The Second is, Fascia Di-

rectionis, by which a crooked part is made streight, or a part preternaturally streight is reduced to

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it's Natural Figure. The Third is Fascia Apostema faciens. By which the matter is encouraged and detained in some particular place, lest it should fall upon some other more Noble. The Fourth is, Fascia Apostema prohibens, which is expulsive Bandage.

As to the Nature of Rowlers they are to be How the made of old ftrong and even Cloth, without any Rowlers Hem or Seam, that they may lye smooth and are to be easy upon the Part. They are also to be of a made. convenient Length, according to the bigness of the Part, and as more or less turns are requisite, as also according to the different seasons of the Year, more turns being necessary in the Winter and cold weather, to keep the Part warm and to defend it from external cold, which makes a Wound crude and full of indigered Humours. Asto the Breadth, they are to be proportionable to the part, where they are to be made use of, s for a thigh, they are to be broader than ora Leg, and for an Arm than for a finger; but moderate proportionable breadth is to be used all, fince a narrow Rowler will Rowl more mooth and even on any part than a broad one, which is apt to press upon and indent the part with it's edges, if too broad; especially a Leg, which being of unequalCircumferences the Rower is apt to press more with one edge than nother. When the Rowler is bound about the art, it is to be made fast where you may easily ome at it again to loofe it, being neither made aft upon the Wound, which will be troublesome othe Patient, nor is it to be tyed, lest it make he part it lyes upon uneasy.

But the Lips of a Wound are not only to be How many ept together by Rowling, but likewise by Su-sorts of Suire; of which there are three kinds. viz. The sures. Icarnitive, The Retentive, and the Conserver.

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formed by making feveral Stitches at a convenient diftance one from another, which are to be closer or may be more distant, as the Lips of the Wound require more or less force to keep them together.

The Second. The Second is Glovers Stitch, which is most necessary in great fluxes of Blood, where the parts are to be brought close to one another.

The third is the most Useful in great Wounds. The Third. where the Parts are difficult to be kept together, and apt to break other Stitches; It is performed as in Hair Lips with pins and needles.

Themanner

Besides these three there is another Stitch which of Stitck- is convenient in the Wounds of the Belly; which ing the Pe- is, to take up the Peritoneum on one fide, and leave it on the other by turns; by which means the Peritoneum is united with the Musculous Flesh, which would otherwise lye open, and the Patient be apt to a Rupture. The Thread made use of on this Occasion must be strong, round and white, that it may be sufficient to retain the separated Parts without breaking.

Themanner

In Stitching of Wounds, the Stitches are to be offlinbing. at a Convenient Distance. In the stitching of common Wounds they are to be made according to the Length of the Wound, about a fingers breadth distant from one another. As for the time they are to be taken out again, it ought to be fooner or later as the Parts agglutinate; which is according to the difference of Constitutions and the goodness of the habit of Body. In the face they ought to be taken out sooner than in other parts lest they should cut the Skin and leave Scars in the face; but that danger may be prevented by making use of the dry Stitches. They are made with little pieces of Linnen Cloth of a triangular or quadrangular figure spread witha not v mixture

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mixture of Sang. Dracon. Thuris, Aloes, farin. trit. gum. tragacanth ana. part eq. cum alb. ov. of fuch Consistence that they may stick fast to the Skin: they are to be applyed at a convenient Distance, and when they are dryed on the Lips of the Wound are to be brought together and fo retained.

The Fourth Intention is to preserve the Natu-How ral Temperament of the Part, that Nature may Fourth Innot be disturbed in performing her part, which tention is isto unite the separated parts; and that is done either without, or with a Medium: when it is done without a Medium, it is called Symphy fis or Curing Wounds by the first Intention: when a Medium interposes it is called Syffarcosis or curing by the Second Intention.

But whether a Wound is to be cured by the The Temper first Intention or the Second, Since Agglutina- of the part tion and Incarning are both the Work of Nature, preserved. itis requisite that the Part should be kept clear of ill disposed and vitiated Humours, which might destroy it's Natural Temper, and disturb and pervert Nature in her Work: And fince the Temper of the part cannot be preserved if there be an Intemperies of the whole, if there be any vitious or deprayed humours in the Body, they are to be discharged by proper Evacuations and corrected and brought to their Natural Crass by proper Alteratives, that Nature may either Agglutinate or Incarn with the affiltance of proper external Applications.

And firstlin order to preserve the temper of Dies. the Part and restore or continue the due Crasis of the Humours, it is requisite the Patient should ave observe such a Regimen in Diet, as may be consifrent with the Constitution of his Body, and the Nature and Symtoms, or other Accidents that attend the Wound; Yet the Course of Nature is that wholly to healtered, that he ways a not wholly to be altered, that being the way ra-

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ther to occasion than correct an Intemperies, therefore respect is to be had to the Patients manner of Living, and if his Body be Plethorick, a moderate Diet is convenient, but if the Body be weak, fuch a Diet is convenient, as may afford good Inices and wholesome Strengthning Nourishment. that the Natural and Balsamick Crasis of the Blood may be preserved. Their Drink ought also to be good and such as may agree with their method of Living, only moderate in Quantity, avoiding all excess which may Inflame the Blood, and confequently affect the Wound; Care is also to be taken to preserve a good digestion, that Cruditives may not be heaped up and breed an Intemperies in the Part.

But a Regular and convenient Diet is not only Bleeding and Purg- to be observed, but a sufficient discharge to be ing requi-made (if the Body be Plethorick) by Bleeding; and if there be a Cacochymia or ill habit of Body

Purgatives are also necessary; yet they are not to be strong, lest they heat and stir up humours, which being separated from the Blood and not discharged, may fall upon the Wounded part; they are therefore to be Mild and Lenient that they may discharge gently and without raising any ferment in the Humours, as Cassia Tamarind. Manna Rhubarb. Senna with Sal prunella, or Elect. Lenitiv. Syr. de Rosis Solut. de Cichor.cum Rheo. &c.

Values ary Alteratives requifice.

Vulnerary Drinks are also requisite made with drinks and some of the following Herbs. Viz. Comfry, Bugle, Ladies Mantle, Agrimony, Sanicle, Pauls betony, Fluellen, Periwincle, Mugwors, Plantane, Horsetail, Adders tongue, Avens, Cinquefoill, Wild Tanfie, Uttvein, Ground Ivy, Golden rod, Herb. Trinity, Century, St. Johns wort, Snake weed, Knot grass, Mone ear, Yarrow, Scordium, Strawbury Leaves and Roots Tormentil, Bistort, Valerian, red Roses, &c. boiled in Water or Wine with an Addition of Honey, or Decost. Traumatic. in the London Dispensa-

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tory. But these are chiefly used in Wounds of the Breast and Abdomen; but often in great wounds. Sometimes to the forementioned Vulnerary Drinks, Sarsaparil. Lig. Guaj. &c. may be added. Antiscorbutick Medicines are also useful, and may be prescribed in the form of Electuarys, Powders or otherwise, as may be most grateful to the Patient.

Thus much for the Correcting of the Crasis To prevent of the Humours by the Use of Internals. But Inflamma. whilf Care is taken to correct the Indispositions tion. of the Humours. Regard is to be had to the Part if felf; and fince Pain is a common attendant of all Wounds and often occasions Inflammation, which exciting a fermentation in the Blood, causes hot humours to fall upon the Part and raise Tumour, those Accidents are to be prevented, by proper Applications in the beginning, which may preserve the Temper of the Part, and also promote Agglutination as bol. Armen. Sang. Dracon. Thus, Aloes, Gum. Elem, Colophon. and Terebinth, applying over them cooling Astringents which may allay the Pain, and refift the Influx of Humours. As Cloths dipt in the Juices of Plantag. Equiset. millefol. vinc pervinc. Ulm. or red Wine or Oxycrate, to which Juices, the powders of f. ros. rubr. balust. N. Cypres. gallar. farin.bord.et fabar. cum ol. matur. Olivar. may be added as the Condition of the Part and Nature of the Constitution require.

In small Wounds a Pledgit of Linimentum Ar-small cai with Astringents over it to prevent Fluxion, woundshow with Bandage, is sufficient. But if the Wound 10 be dressed be great, when the Lips of the Wound are to be fed brought together and also retained by Suture, sprinkle some of the following powder over the Wound, Br. Bol. Armen. Thuris, Sang. Dracon.

ana part.eq. applying also astringent agglutina-

tives

tives mixed with the whites of Eggs over that, and aCompress wrung out of Oxycrate over all. with good Bandage. But left the Lips of the wound should be torn and disturbed with taking these Astringents off next dressing, it may be convenient to apply over the powders sprinkled on the wound, a Pledgit spread with one of the following Unguents R. Terebinth. venet. Biii Gum. Elem. Bii Sang. Dracon, Thuris Maft. ich. ana. 3i. M. f. Unguent. or B. Terebinth. 3ii. Refin pin. oliban Coloph. ana. 31.1s. Mastich. 31. Croci 3i. cere 3ii. ol Hyper. q. f. f. Unguent.

By this Method, if the Lips of the Wound are

How Agglu

tination is kept together they will foon be agglutinated; but performed fince Agglutination is the Work of Nature, and b, Nature. only affifted by Art, we shall consider, how Nature does her part, and how she is assisted by the use of Medicines. How Nature performs her part in this Respect may be easily conceived, by observing, how she behaves her self in supply. ing the loss of Substance, and uniting of other parts; which I have explained in the first Chapter of the second Part of Incarning of Ulcers; and in the Chapter of Ulcers with Caries, I have shewn; how a Callus is generated, from what has been faid of both it appearing; that both of those Actions of Nature are performed by the Apposition of the sanguineous Particles of the Blood; which is evident from the progressive steps of Nature, and the Colour of the Substance newly made, however it's Texture may be altered afterwards, which may occasion a Change of Colour, fince Colours are nothing but a different Reflection and Refraction of the beams of Light, variously modify'd in their Pass fage through the Air, as their motion is determined from the Superficies of a Body; which happens

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Chap. I. Of Wounds in General.

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happens to be different as the Texture of that Body is different; Forms and Qualities arising from a various Contexture and Modification of the parts of matter, differing in fize and figure; but this by the by : fince then Nature both incarns and generates a Callus by the Apposition of the parts of the Blood, it is much more likewhe should Agglutinate by the Apposition of the parts of the same, than by the Parts of the Serum, which are thinner and less apt and inclined to a solid form; but the parts of the Blood being Viscous and Tenacious, presently loose their fluidity when once they have lost their Circulation, which Agitation preserves their parts in Motion, and keeps them fluid; but when they come to the Extremities of the Vessels, and loofe their motion, they presently shew their disposition to firmness, and solidity.

Since it is most likely that Agglutination is performed by the Apposition of the Parts of Blood, we suppose, that as when the Vessels are divided by a Wound, the Blood is extravafated into the Cavity of the Wound, or rather, to speak more properly betwixt the Interstices of the Lips. and is apt to coagulate and grow grumous by being exposed to external Cold, so when those Lips are brought together and the Orifices of the Veffels close to one another, the Blood being no longer exposed to external Cold, retains it's Proper and Natural fluidity, and being pressed out of the Extremities of the Vessels on one side, and having no Cavity to receive and lodge it it is protruded by fuccessive Blood into the Orifices of the opposite Vessels, which are ready to receive it, the Blood contained in them having no retrogade Motion to oppose it's Entry, but being drove before it, the Blood continueth its natural Course and Circulates as it ought to do: but since there

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there is not a Continuity of these Vessels, but on ly a Contiguity, it is but Reasonable to suppose that fome parts of the Blood, as it is squeeze out of one Vessel into another will be apt to infi nuate themselves betwixt the divided Vessels and when once these parts are got betwixtth Vessels, being there out of the Way of the mov ing Blood, and confequently loofing their Moti on, they prefently coagulate and assume a folio form, (for folids only differ from fluids as the Parts of the former are at rest, and the Parts ofth latter are in continual Motion, or at least lyes upon one another as to be eafily put in Motio and disposed to give way to the Impression of a nother Body;) and fince whilft they are fluid the are apt to give way to the Impression of a foli Body, and to infinuate themselves into the pore of it, we must conclude that these parts of Blood whice lye betwixt the Vessels being pressed up terna on by other Blood contiguous to them, they will as for be crouded into the pores of the Extremities of the the Vessels, and like soder melted in betwixt two cables Bodies it is to cement, they configure and for qual themselves according to the figure of those pore d to and being out of the way of Circulation, and Isern loosing their Motion, they grow solid an dicin firm, and like soder when cool, agglutinate the Extremities of the Vessels, and renew Part their Continuity. Thus Nature feems to per thic form the Work of Agglutination. Serui

How Ag. From what we have faid it appears, how No for a lumination ture performs her Part in agglutinating dividual is binder'd ded parts, as long as the Blood retains it's Nation; tural. Temper and Disposition, but when the bet Crass of the Blood is perverted and vitiated her for and the Serum is either too thin, or sharp and con frett roding, Nature is obstructed and hindered in the performing her Office. When it is too thin, is Qu interpolin

perposing betwixt the Parts of the Vessels and eBlood swims them off, and will not suffer them rest betwixt the Extremities of the divided essels, but swiming betwixt the Vessels themlves, divides them, as well as hinders Agglutinathe and when the ferum is too sharp and fretof hold from uniting the Vessels, but even corolic des and separates the parts of the Vessels, and the stroys their Continuity and Texture, though th afirmed by so long a Continuance, as the Life the Person.

tio Itappearing from hence, now is a till the head of the din Agglutinating, as well as how the performs din Agglutinating as difficult Matter to underthe r part, it will be no difficult Matter to under-oli ad, how Medicines promote it and condind, how Medicines promote it, and affift Naore e, especially if we consider then ours what Effect they may have upon the Humours

Chap. I.

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will As for the Nature of Internals, from the Me- How Ires ond here proposed it appears, that they are fer-ternal Metwo eable not only in altering and correcting the dicines pro-

form Qualities of depraved Humours, but likewise more Agores d to the incrassating and thickning the Blood slutination.

and Serum: For since Traumiticks consist of an dicines which incrassate the Serum and Blood, inat heras they allay and correct the hot acrimoniper like the Humours by their Astringency; Serum thus thickned is prevented from flow-Ne so plentifully in betwixt the Lips of the diviound; and having likewife lost it's sharp indisthe betwixt the Vessels, and Agglutinate, being ated her swom off with it's superfluous Quantity, con fretted and corroded by it's acrimony; the ed ind being likewise thickned by these adventi-

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lities, as well as to correct the Blood by their bit

terness, so the decoction of Sarsa and Guajacum tend to thickning the ferum by consuming and

dispersing the thinnest part of it by Diaphoresis, As for Externals fince they are either Affrin sination isgent or Rezinous and Gummy as well as Balla promoted by mick, they likewise by their Astringency promot

Externals. Agglutination by thickning and imbibing th superfluous thin serum, whilst the Rezinous Ba famick parts not only incrassate the Blood, an Serum and render them more viscid also, an apt to cement the part, but likewise correct th sharp parts of the Serum, and prevent from fretting and disturbing the particles Blood, disposed to agglutinate and unite thes parated Parts.

Thus much of the Agglutination of Simp be done in Wounds. But when a wound hath not only Wounds Solution of Continuity but also a loss of Substand with loss of and comes under the Denomination of a Con Substance. pound wound, instead of being agglutinate

that loss of Substance is to be repaired, byt Generation of new Flesh, and the Interval to

filled up by incarning.

Sinching requifite.

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In order to the Union of these Parts, Wound being first cleansed, the Lips of Wound are to be brought as near as may together, by the Incarnative Suture; w fuch a Number of Stitches as may be sufficie to retain them; and if the Incarnative Sti Deco is not strong enough you may make use of Conferver, passing Pins and Needles throu treta the Lips of the Wound, with little Plates ound Lead to defend them from tearing. But if pper

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want of timely care the Lips of the Wound grow fiff and swelled, so that they cannot be brought together, they must be relaxed with Emollient fomentions. ex fol. et rad. Althea, malv. viol. fem. lini. fenugrac. &c. and if they are so deep, that their incarning at the bottom may be fufpefted, a declining Orifice must be left for the discharge of the Matter, which may be kept open by a small Tent, till the matter is digested. and then healed up according to the usual Intenions, leaving out the Tent that the Part may fill up.

But when Wounds are fo large, that they In large annot be brought together by Suture, they are wounds and to be brought to Digestion; and so disposed with loss of substance in the sincarn: In such Cases the following Digestive what is to nay be proper. B. Terebinth. Zii. farin.hord. be done.

ent may be proper. By. Terebinth. Zii. farin.hord. be done. es vi. Thuris Zi. M. cum Vitel. ov. When the ness Vound is sufficiently Digested deterge with with sound is sufficiently Digested deterge with sundificativ. Paracels. Or the following from lurcetan which will also incarn. Be. fol. Plantag. only in ana M. i. iros. rub.P. ii. Vin. rub. 3viii. Coq. Medietat. Colat. add. Sacchar. rubr. 3ii. Telinth. 3i. farin. Junip. & Orebi ana 3vi. Alego syrth. ana 3i. decoq. rursus & addend. Cera. q. byt reduc. ad form. Unguent. The Part ought tewife to be Fomented every dressing with oths wrung out of a Decoction of fl. ros. In. Balust. N. Cypresi, &c. in red Wine, of thich will preserve the Natural Heat, and promet the Untentions both of Art and Nature. The Wound be full of Maggots as these great officie ounds often are, they are to be washed with the Still Decoction of Absimb. Card. Benedict. Scord. Second of the Gent. Myrrh. Aloes, &c. which prevent throw tretaction and Corruption. But whilst the olates ound is thus taken care of, and dressed with the olates ound is thus taken care of, and dressed with the olates ound is thus taken care of, and dressed with the olates ound is thus taken care of, and dressed with the olates ound is thus taken care of, and dressed with the olates ound is thus taken care of, and dressed with the olates ound is thus taken care of, and dressed with the olates of the ola

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the Influx of Humours must be prevented, by Bandage and External Applications; which are both Cooling and Astringent, that they may temper the Heat of the Part, as well as repe the Humours which might flow upon it, the Humours are likewife to be diverted by Bleeding and Purging, and Corrected by proper Inter nals, as the Constitution and Temper of th Person shall indicate. And a due Regimen like wife is to be observed in Diet. When th Wound is sufficiently digested and deterged, w are then to incarn and cicatrize; as in othe Cates where these common Intentions are re quired.

If a Wound be made by Contusion, either b fedwounds a Fall or Blow; the Contufed Flesh is to be con

fumed by digestion. To which purpose Basilion with ol. Lumbricor. warm, may be proper, En brocating the Parts with ol. Rof. myrt. &c. cu Aceto, with a Restrictive over all, ex bol. Arme Sang. Dracon. fl. rof. rub. baluft. &c. cum Al ov. And if the Wound hath been made a Conf derable time before it is dreffed, it must befin Fomented with Discutients, to stir up and red ver the Natural heat in the Part; and Embr cations with warm Discutient Oyls. As ol. Lun bricer. Chain. Rut. &c. to prevent the Coagula tion of the Eumours in the bruised Vessel which will likewise promote and affist digestion and the Separation of the Contused Flesh. The Wound digested is to be deterged, incarne and cicatrized, according to the common Inte tions. If the Wound be deep, and the Orif too narrow for the Discharge of the matter, must be enlarged; and if Sinuous so that matter cannot be discharged; an Orifice is be made in a declining Part, by Knife, Caustick y be a a Seton-Needle, as in Sinuous Ulcers, and dre erwar

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ed with Terebinth. cum alb. ov. on a proportioable Tent; Embrocating the Part with ol. Ros. Mrt. &c. and applying emp. de Bol. over all, ith good Compress and Bandage.

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from what hath been faid of Compound from what hat he forentions of Contusion, whether by Incisicion or Contusion, appears, that the Intentions of Cure differ om the Intentions in Simple Wounds, the Lois Substance being restored by digestion, detersi-, and incarning as in Ulcers; fince then we we given an Account of the Reason of Digesti-, and the rest of those Intentions in the First upter of the Second Part of Ulcers in General, e hall not repeat them here, but proed to:

The Fifth Intention in the Cure of Wounds, of the Fifth lich is to prevent ill Accidents, and correct the Cure of has have already happened. As Hæmorrhagy, Wounds in, Fever, Intemperies, Convulsions, Syncope, which respect ill Aclirium, and Palsie. cidenis.

Hemorrhagy is an Accident incident more or of Hamorstoall Wounds; when it happens in Simple rhagy. ounds, the way to stop it, is to bring the Lips the Wound close together by Stitching, and plying Astringent powders mixed with Aggul minatives. As Galens powder of Aloes P. j. wis P. ii. and Hares furis, mixed with the hite of an Egg, with Astringent powders arme er all, and good Compress and Bandage. If Lips of the Wound cannot be brought to-Orificher, the forementioned powders may be ap-er, ed upon Pledgits or Dossils with Astringent inters over them, and good Compress and idage, or Pledgits or Dossils dipt in of. Terebinth. tick I be applyed instead of the former powders, i de erwards placing the Part in a Convenient R 3

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Posture. When any large Vessels are Wounded, what Method is to be taken will appear in the next Chapter of the Wounds of Veins and Arteries.

of Pain.

If Pain attend a Wound it occasions Inflamma tion and Tumour, if not prefently removed To which end, when it happens to be confide rable, Bleeding is necessary to empty the Vessels that there may be less Fluxion and force of Hu mours upon the Part; and that the Quantity of Humours being diminished, the rest may be cool ed and tempered by being mixed with fuc things as may correct the hot Humours in th Blood. Anodynes also are proper, not only in ternally, but externally, as Fomentations and Emollient Cataplasms of fol. & rad. Altheamak violar hyosciam. Thaps. fl. ros. cham. mel. sen lin. fenugrac. cydon Pfylli. papav. a.b. &c. boile in broth made of Sheeps Heads and Feet or Mil In the beginning Cataplasms made of farin. hor fabar. fl. ros. rub. sambuci, boyled in red Wil or Oxycrate, adding oyl of Roses cham. lin. & If inflamed fol. hyosciam. boyled in Milk, crumbs of white-bread, with a new laid Eg and Saffron and oyl of Rofes may be applied the form of a Cataplasm. If it tend to supurat on it is to be handled as a Phlegmon. If a Ner be concerned, as the Wounds of the Nerves; a if for want of a free discharge of the Matte Vent is to be given either by Knife or Caustic How these Medicines relieve this Sympto hath been shewn in the First Part of Tumor which I need not repeat here.

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If a hot Cholerick Serum occasion an Intem-of abalaperies in the Part, as in an Eryfipelas, Unquent.1:mperies. Nutritum, populcon, Refrigerans Galeni, Unquent. alb. camphorat. are proper or B. suc. Plantagin. Solan. Semperviv. ana 31. Bol. Armen 3's. Litharg. in aq. Plantag. lot. & Tutia prep. una 31. ol.rosar. omphac. nymph. ana 311. acet. rosac. et cera q. s. f. Unquent. If the Tumour be Oedematous, warm Discutient Fomentations are proper; as f. cham. melilot. Sambuc. aneth. Sem. fenugrac. &c.with good Bandage, to drive out the Humour attenuated by discussion, and support the relaxed fibres that they admit no more. How thele Medicines perform their Work, hath been hewn sufficiently in the Chapters of Eryspelas and Oedema.

Fever is a Common Attendant of Pain and In- Of a Fever fammation, those Symptoms disordering the regular distribution of the Spirits, and raising a fermentation & Extraordinary heat in the Blood. But if the Fever continue when the Pain and inflammation are over, and be attended with filiring and Syncope. The hot ill tempered Humours are to be discharged by Bleeding, Ve-Scatories, Clysters and Lenient Purges. The Inemperies of the Blood is also to be removed by poling Juleps, Emulsions, &c. How the other ymptoms of Gangrene, Convultions, and Pale happen, and how they are to be remedied f the Symptoms are occasioned, and how the rest musto f the Symptoms are occasioned, and how emedied, and by what Medicines, hath been lready considered; except the Reason of Vecatories, which we shall here briefly exlain.

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How Vefi. catories Faife Blifters.

raise a blister may easily be understood, it we Consider the Nature of Cantharides, and the Nature of the Parts they are to Work upon. And fince Cambarides confift of Parts very pungent and hot, and are always applyed with fomething that is oyly, Mucilaginous or Gummy, we suppose, that those Oyly Mucilaginous or Gum. my Bodies clog up the pores of the Cutis, and prevent the ferum Separated by the Glands of the Cutis from being freely discharged through the pores of the Cuticula, except fome of the finest Lympha; which being hindered from evaporating, is condensed and collected betwin the Gummous Plaister and the Cuticula, where it is impregnated with the Volatile Corrofive pungent parts of the Cantharides in which they are dissolved; now tho' the Serum separated in the Glands of the Cutis, is too groß to pass thro'th pores of the Cuticula, yet the pungent Volatile Pant of the Cantharides do, and in pregnate the Serun contained under the Cuticula with their sharp bi ting particles; which affecting the Nervous Papilla occasion pain; and consequently warm and her the parts; by which heat, as well as by the Vola tile parts of the Cantharides, the Humours are rarifyed in the Cutis, that they are feparate faster than they can be discharged by the pore of the Cuticula, which they by that means separate and raise a Blister; and that the Pungent Salin Parts of the Cantharides affect the ferum in the Glands, or what is more difficult, the Blood i the Blood Vessels, is evident, fince a great man by the use of Blifters, have been affected with Dyfuria cr a Strangury; which shows, that the do so penetrate and affect the Blood with the Volatile Parts, otherwise they could not translated into another Part. CHA

CHAP. II.

Of the Wounds of the Veins and Arteries.



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Hen a Vein or Artery is wounded. they discharge so much Blood, that it is requifite they should be presently releived.

Whether the blood flows from Wounds of the Veins or the Arteries is cafi- the Veins y discovered, by the manner of its flowing out. How disfrom an Artery it leaps out with a great deal flinguified. offorce, and by turns, according to the Pulfati-

ons of the Heart, and is of a florid Colour, whereis the Venal blood flows out with a constant frain, of a thiner confistence, and a darkish Colour.

Wounds of the Veins are not dangerous, being The Progcored by the Application of Galen's powder with noflicks. he white of an Fgg, and Restringents over with Compress and Bandage. But if an Artery be wounled it is hard to stop, the blood being in a violent motion.

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290 Of the Wounds of the veins, &c. Part. III.

The Cure.

If wounds of the Arteries have neither loss of fubstance nor bruised Lips, the Lips are to be brought together, and the Arteries opposite to one another, and secured there with the Glovers flitch, with a strong waxed thred, applying the following over it, B. Bol. armen. 3111 Jang. dracon. thur. aloes glutin. sic.ana. 31. gypsi. farin. volat. ana.3ss. hyp. coste. acacicet. Sumach. ana. 3iii. M. cum alb. ovi. upon which apyly a Compress pressed out of Oxycrate or red Wine, then with a double Row. ler take a turn or two about the place and rowl upwards and downwards to press the blood out of the Parts and to prevent fluxion. The Partis also to be put in a Convenient posture; the Bo. dy cool and quiet, and a slender diet to be nied and the Patients drink cooling and Astringent, as Ag. font. cum. acet. or fal prunel. sweetned with Syrup of Coral, Pomgranates, Limons. or R. Croc martis. Essentia Corallor. ana. 31. ros. sic. et mynt ana. 31. aq. papar. rhead. 31v. M. or decost. hord cum. fem. papav. alb et hyascyam. sweetned with Sugar of Roses; or Landanum may be given as the strength of the Patient will bear it. may also be made by bleeding, cupping or ligature, or dossils dipped in ol. Terebinth hot may be applyed to the bleeding Vessel, with good compress and bandage.

When the Wound is dressed it is not to be opened under five or six days, least the part bleed again, but if notwithstanding these endeavours to prevent it, the Vessel bleed again, if possible, the Artery is to be taken up and tyed, and dressed with Incarnatives, &c. as in a Anurisma. If the Vessel cannot be taken up, the Bleeding is to be stopped with Eschorotiks of

Actual Cautery.

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Before Escharoticks are applyed, the wound is Escharotick to be well cleansed, and then dossils may be applyed to the Bleeding Artery, dipt in the following powder B. Thur. pulv. Zii. Aloes glut. sic. ana. Zi. calcanth. ust. Zii. arsenic. Zvi. gypsi. Ziii. this being applyed on lint, and Dossils dipt in alb. ovi. cumpulv. galen. the part is to be guarded by Desensitives, and bound up with good Bandage, or instead of the forementioned powder Vitriol powdered and tyed up in a fine rag may be applied to the Artery, with convenient dressings over it. The next dressing, the Escharotick is to be left upon the Artery, and the wound incar-

But if this is not effectual, the Artery is to be Actual Caufurnk up with Actual Cautery, passed down to so be apply'd.
the bleeding Artery through a Canula, as in a
Caries. The Cautery applyed and the ends of
the Artery shrunk up, the Cauterised part is to
be dressed with dossis dipt in Mucilage of Quinces,
or alb. ov. embrocating the part with oyl of Roses,
and a plaister of Diachalcit.cum. suc. plantag. over
all; when the heat of the part is asswaged, di-

geft, incarn, and cicatrize.

CHAP.

CHAP. III.

Of the Wounds of the Nerves, Tendons, and Ligaments.

The Diagnofticks.



Erves and Tendons are wounded either by Puncture or cut, If they are cut through they are irrecoverable; the figns of a Wound in these parts are great Pain and Inflammation; and Contraction,

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and Hardness in the Nerve or Tendon. If a Nerve is cut in two and divided; the part is more or less stupifyed and lame, as the Nerve is considerable. If a Nerve or Tendon be pricked a sudden and violent Pain ensues, with fainting, convulsions, and great Fluxion; and instead of of Matter they issue out a thin gleet.

The Prognosticks.

Wounds of the Nerves and Tendons are all Dangerous, but the Transverse ones more than those which are length-ways. The Wounds of the Nerves are more violent and sudden than those of the Tendons.

The Cure.

In the Cure of these Wounds we are to consider, whether the Nerve or Tendon lye bare, or covered with the Skin; if covered, they are to be laid bare, by dividing the Skin or Membranes that cover them, that Medicines may be applyed to the part affected; which ought to consist of parts which are warm and very Subtle to preserve the Natural heat of the Parts, and dry up that Gleet that issues from them. In the Beginning oyl of Roses with bay salt dropt hot in the part, will be sufficient, with a Pledgit of Basili

con over it as a Lenient to affwage the Pain and mollifie the part; alfoEmbrocations with ol. Lumbricorum, will be proper to discuss the Humours which might fettle about the part and tumify; and Emplast.de Bolo.over all to defend the Parts from the Influx of Humours. If the Wound beattended with much tumour and inflammation, the following Cataplasm may be applyed B. far. bord. u tabar, ana. Biv. sem. lin. fenugrac. ana. Bi. fl. rof. rub. sambuci, sum. absinth. ana. Bill. cog. in Vin. vel. lixiv. addend. Oxymel. 3iii. ol. Rof. 3i. which by it's emollient Qualities will foften the Tumour, and by relaxing the parts affwage the Pain and Inflammation, whilft the discutients, attenuate the humours settled in the Tumour; and the Astringents contracting the Parts contribute to the expelling of them which is pronoted by moderate Bandage. If the Pain be violent it is to be renewed twice a day. fronger Medicines are required to dry up the thin gleet ol. Terebinth. Bals. Sulph. Terebint. ol. Rut. Sabin. Scorp. eneth. may be used by themfelves or mixed with Bals. Lucatel. or B. ol. Sain. Terebinth. 3ii. M. But care is to be taken that they are too hot, the Part will itch and smart nd the Lips of the Wound open; if too Cold he Gleet will continue or increase; but if the deficiency are agreable with the Part; they will to be feel it with a Moderate Heat, If the hardness bate and the Lips of the Wound relax, it is a plyed food fign. But if the proposed method prove of the feetual, the best way will be to divide the eto serve or Tendon, lest worse Accidents follow, as did from the Wound is Cured by the Common Intentions as other Wounds, the Part being kept in a safely convening Posture. But,

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254 Of the Wounds of the Nerves, &c. Part. III.

of the Ac- Sometimes in Letting Blood, by Bandage or Pocidents that fition, the Skin which lyes equal with the Orifice, anend Blee- by altering the Position of the Arm, or when ding.

the Bandage is loofned is drawn over the Orifice, and Extravafated Blood lying under the Skin occasions an Ecchymosis; or when the Orifice is made well, and there is no fault in the Chirurgeon, through the ill disposition of the Humours. the Part festers and occasions a Phlegmon; which neglected occasion Tumour and Inflammation. and other ill Symptoms, which are imputed to the Pricking of a Nerve or Tendon; but i taken care of in time,a Pledgit of Basilicon Warm will be sufficient, Embrocating the part with ol. Rofar. and Emplast. de Bol. or Diachalcit. malaxed with ol. Rofar. applyed over it. What me thod is convenient when those Parts are Wound ed by a Lancet, hath been shewn elsewhere in the first Part of Tumours; in the Chapter of a Ecchymosis.

of be Liga. If the Ligaments are Wounded, they require mens. much the same Method with the Nerves and Tendons; only the Parts being themselves dry require Medicines more drying to stop their Gleet As Euphorb. Sulph. Viv. calx. Lota. Tutia, &c.

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& smitte air.

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CHAP. IV.

Of Wounds of the Face.



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&c.

N Wounds of the Face Care Cautions to ought to be taken, that the part be observed be not disfigured and deformed as much as possible, but if stitching be necessary to bring the Lips of the Wound together, the

Agglutinatives, sprinkling a little of Pulv. Gamover the Wound with a Pledgit of Linimenmarcai and Emplast. de Bol. as a Defensative,
and a Compress wrung out of Oxycrate, with
movenient Bandage over all. As soon as it may
econvenient the stitches are to be Cut, before
hey cut through the Skin and endanger dissiguing the Face with scars; and the Lips of the
Wound are to be retained close together by the
elp of the dry stitch, dressing the wound as beress and making such Bandage as may Comress and keep the Lips of the Wound close toether, and assist the dry stitches.

If the part be attended with Fluxion and in-what is to amed, embrocate with ol. Rosar. cum. aceto. be done in in make Revulsion by Bleeding, Purging, &c. case of Flushing the ferment and heat of the Humours by xion.

Cooling diet, and Anodyne Draughts, &c.

Of Wounds penetrating the, &c. Part. III. 256

If the Body abound with hot thin Humours Agglutination it is to which may hinder Agglutination, the Lips of be promoted the wound are apt to separate again, after they feem to be agglutinated; in which Cafe, the use of Inimentum arcai is not to be continued, but the wound is to be dreffed with drying Medicines, which may imbibe and confume that fuperfluous Moisture; and the Wound will heal of it felf, and Agglutinate, Medicines proper in fuch Cases are Unquent. alb. Camp. Tutia. Desicativ. Rubr. &c.

CHAP.

Of Wounds penetrating the Oesophagus and Alpera Arteria.

Wounds of abe Oefopba-Pus boro weard.



Ounds which penetrate the Oeso. phagus or Aspera Arteria ought to be stitched very close; especially the Oesophagus, otherwise the Saliva in it's passage continu ally, would be apt to flow and

press into the Wound, and hinder the Parts from exting uniting. If the stitches seem to give way before ut upon the Wound is internally agglutinated they are fived by either to be removed, or the Conserver with wound of pins and needles is to be made use of, keeping ungs be them close together with a strong thread twist ccasioning ed about them till the Wound is united.

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To dispose the Wound to unite and agglutinate, proper Agglutinatives are to be employed, and the Patient is to use a thin Diet, that the Parts may not be too much pressed upon by swallowing gross Meat.

CHAP. VI.

Of Wounds of the Breast.



Ounds of the Breast are of two Difference.

kinds, either such as penetrate or such as do not. If they penetrate we are to consider, whether they penetrate betwixt the Mediastinum, or whether into the

avity of the Thorax; and what Parts internal-

If a Vound penetrate the Breast, and enter in-The Diagothe Cavity of the Thorax, it may be discove-nosticks.

ed by a Probe, or a searching Candle; or by
aying a Feather upon the Wound or holding a
landle before it, which will be either blown away
rextinguished, the Air making a Noise as it goes
at upon Expiration. Sometimes it may be pereived by the Blood discharged either by the
Vound or Mouth, or sometimes by both, the
langs being oppressed by extravasated Blood,
ccassoning a Dissipation of Breathing, as in
orthopnase.

Parr.III

The Prog-

If a Wound happen in any Part of the Thorax, it is dangerous especially if a Nerve, Tendon, orangereat Blood Vessel be Wounded. For which Reason they are more Dangerous in the Back-part than in the Fore-part, and if the Lungs are Wounded, because of the Constant Motion of the Lungs If they happen near any great Vessel they commonly terminate in a Phthis or Fistula. If the Blood extravasated fall upon the Diaphragma, and corrupt, it is dangerous.

The Cure.

If a Wound of the Breast be External its cured as a Simple Wound. If the Wound punctrate, the Flux of Blood is to be checked, and the Extravasated Blood discharged. The Extravasated Blood is discharged either by the Wound or Expectoration, or as some Author

fay, by Urine.

If a Translation of Extravasated Blood hap pen by Urine Decost. Capill Veners polytrich. To Petroselin. beton apii. senie. asparagi, &c. A proper Diureticks, which attenuating the mater, dispose it to be transluded through the Port of the Pleara, and imbibed by the Branches of the Vena Azygos, and in it's Circulation through the Kidneys, to be separated in the Glands the Kidneys and pass off by Urine Ptisansal with ol. Sulp. Vitriol. and Emulsions are prop to temper the Heat of the Blood, and by keeping it coal, prevent a further Extravasation The Vessels are also to be emptyed by Bleeding and the Ferment of the Humours checked Anodine Draughts.

Exp Vene veni

venice If be then But it is Blood Tent preventhis to powder cum all Empl. It flopped flive.

the Or

tives,

To promote a Discharge of the Matter by Expectoration, Decost. Pestorale Syr. Capill. Veneni. Jujub. Glyoyrhiz. Oxymel. &c. are convenient.

If the Wound be in such a Part that it cannot be conveniently discharged by the Wound, then it is to be healed up as foon as possible. But if the Wound, be in such a place, that the Extravafated Blood may be discharged by it, it is to be kept open; but first the Flux of Blood is to be Stopped, to which purpose a foft Tent is to be made, with a thread tyed to it, to prevent it falling into the Cavity of the Thorax, this to be dipped in the Common Aftringent powder of Bol. Armen. Sang. Dracon. & Thur. cum album, ov. with a Pledgit of the same and Empl. de Bol. over it; when the Flux of Blood is stopped, the Plegit may be armed with a digeflive, and as foon as the Matter is discharged. the Orifice may be healed up with Agglutinatives, Incarnatives and Epuloticks.

S 2 CHAP.

CHAP. VII.

Of the Wounds of the Belly.

Difference.



Ounds of the Abdomen differ as they penetrate or do not. If they penetrate the Intestines or the Omentum are apt to flip out, In Wounds of the Abdomen which penetrate sometimes the

Intenines or iome of the Viscera are also woun-

If penetrating Wounds of the Abdomen are The Diaglarge, the Omentum or Intestines will fall out; nosticks. if small it may be discovered with a Probe. If any of the Viscera be wounded it will appear procated from the symptoms, and the place where the Wound wound is made; if the small Guts be wounded, and war Chyle will flow out of the Wound; and so the he grea Matter will differ according to the Nature and lifcharge Contents of the wounded Part.

Wounds which do not penetrate are without ers Stite The Progdanger, those which penetrate near the Plexus he Agg of the Nerves in the Middle of the Belly are he Gut, worst, being painful in stitching and difficult to nosticks. cure.

Wounds which do not penetrate are cured hat it may as other simple Wounds. If the Intestines or 0. The meil od of Cure. mentum thrust out, they are speedily to be reducted be ful ced; but if they are so inflated and puffed up, that they cannot be returned, they are to be fomented with red wine, or a discutient decoction ex Summit. orig. puleg. fol. beton. Saiv. flor. cham.

lem. an thods larged duced.

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If th a Ligat Part, an is to be gature

If the testines within \ and age it will a he Bell If the by the \ he Chy Case the

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fem. anethi, fenic. dulc. anif. &c. and if these Methods prove ineffectual, the Wound is to be enlarged by Incision, and then they are to be reduced.

If the Omentum be tainted by the External Air, When the Ligature is to be made, above the Corrupted omentuming that and that to be out off and the External Air, when the Part, and that to be cut off, and then the Wound what is to is to be stitched up, leaving the ends of the Li-be done.

gature hanging out till it cast off.

If the Wound be so small, that neither the In-testines nor Omentum can slip out; nor the Parts within be hurt, the Wound is to be healed up and agglutinated; but if the Viscera be wounded twill appear by the Symptoms, as the Inflation of the Belly, Collick, Vomitings, &c.

If the small Guts be wounded, it will appear in Wounds by the Violent Pain, Vomiting of Choler, and of the Guis he Chyle flowing out off the Wound. In this what is to Case the whole Region of the Belly is to be em- be done.

procated with ol. Mastich. et Lumbricor. and the Wound dreffed with Sarcoticks, keeping it close nd warm with Compress and Bandage. he great Guts be wounded, and the Excrements licharge themselves that way, the wound is to tlaid open, and the Gut stitched with the Gloers Stitch, which being done, sprinkle some of he Agglutinatives over the Wound and reduce he Gut, stitching up the Abdomen. The method flitching the Abdomen is to take hold of, and ave the Peritoneum by turns every other stitch, latit may cement with the Flesh, otherwise the critoneum not growing together, the Person ill be subject to a Rupture.

Beeding is neer fary.

In these Cases Bleeding is necessary, and is to be repeated as often as necessity requires. A strict and moderate Diet is also to be observed. that the Intestines be neither crouded with the Quantity of Excrements nor prejudiced with their ill Qualities. After the second Day, Cly. sters of Chickin, or Veal broth may be admini.

Cluffers ter.

when pro-stred, wherein Barly hath been boyled, adding Yolks of Eggs, mel com. or Sugar of Roses, which will not only be foft and healing to the Parts, and preserve the Natural Heat, but also prevent the Intestines from being crouded with too much Internally, Yulnerary decoctions Excrement. of fol. plantag. Equifer, pimpiuel. pilofel.rad. confolid.

requifite.

Decodions &c.may be used, adding, Conf. ros. rubr. cydon. or Decoctum Traumaticum. as also Electuaries and Bolus's made of Balfamicks with Agglutinatives, as Spec. diatragacanth. &c. Which may not only affift and promote the healing of the Parts internally, but also by their Mucilaginous Qualities defend the Intestines from the Acrimonyo Cholerick Humours, If the Viscera are Wound-

be done

What is to ed, the fame Internals are proper, and the Wound is to be kept open to dress the Parts, and Vitera are to discharge the matter that flows from them Wounded. as also Cataplasms may be applyed ex ferin. hord fabar. fl. rof. rubr. in hydromel. coct. But of these more in the following Chapter of Gun-sho

Wounds of the Belly.

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of the alfo. Sorts, Punctu times 1 a Blow whole, like th the Ve Blood J tigines, dures 1 only aff preffing Concus fels, th vers. Fiffures the Frac

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CHAP. VIII.

Of Wounds of the Head.



Ounds of the Head are either Difference. Superficial, in the Skin or Flesh, or affect the Bones, or when the the Membranes within the Skull are Cut or Torn. Wounds of the Skin and Flesh are either Sing-

ly by themselves or Compound with Fractures of the Skull, and Wounds of the Membranes alfo. Wounds of the Skull are divided into Six Wounds of Sorts, viz. Fissures contrafissures, Incisions, the Punctures, Contusions and Fractures. But some- how many. times violent Concussions of the Brain happen by a Blow or Fall, the Skin and Cranium remaining whole, attended with violent Accidents, not unlike those of Fractures, and often more violent, the Vessels within the Skull being broke and Blood Extravasated, which produce Stupores, Vir- The Symptigines, Dileria, &c. more Dangerous than Fra-toms and Accidents dures themselves, the Extravalated Blood not of Concussion only affecting the Membranes of the Brain, but ons. pressing upon the Origin of the Nerves Concussion happen without Fracture of the Vef fels, the Person is only Stunned, and soon recovers. Sometimes Contusions are attended with Fiffures of one or both Tables of the Skull. If the Fractures happen in the place where the blow was made, it is called Fissura; but if it happen on the Opposite Part, it is called Contrasissure. Great Contusions without a Wound often are attended with Concussions; but those are most properly

properly Fractures, where the Contusion is attended with a Wound and a peice of the Skull is separated from the rest. The other fort of Fra. ctures are made by a sharp Instrument that either Cuts or divides the Parts by a Point.

Signs.

Simple Wounds of the Scalp eafily appear to the fight. If there be a Wound the Fracture will eafily be perceived by feeling with ones fin. ger, the inequalities of the Bones being evident to the Touch; and fometimes when the Skinis not broke, if the Inequality and Depression be considerable, the Tumour of the part being soft and poppling. If there be no Wound, a Fracture, Fissure or Concussion may be Guessed at by the Symptoms, and the manner and occasion of those Symptoms. If the Fracture be considerable, the Symptoms Conjunctare First a Singing of the Ears. Secondly, Falling after the Blow, Thirdly, Swooning for a time. Fourthly, Slum. bering after the Fracture is made. Fifthly, Daz. ling of the Eyes. Sixthly, Giddiness. Seventhly, Bleeding at the Nose, Eyes, Ears and Mouth.

The Frognoficks.

ly, Bleeding at the Nose, Eyes, Ears and Mouth. Eighthly, Vomiting. Signs which follow after lass are. A Constant Pain of the Wounded Part, so that the Patient often offers to put his hand to the place. Vomiting Choler with a Fever, Convulsions, Palsie of one of the Legs and Arms, Raving, Faltring of the Speech, Deafness, Loss dumour of Memory, Dullness of the Understanding, &c. All Wounds of the Head though never so slight are Dangerous if neglected. Incised Wounds which reach no surther than the Cranium are least dangerous, and easily cured. The nearer tards we they reach towards the Brain the more dangerous. Contusions are all dangerous, producing commonly ill Symptoms. If upon Perforation of the Cranium, the loss of sense continue, it is dangerous, and foretells Blood Extravasated under the malei, & dura dura

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TN: N are att mour, Aftring Humou Influx Parts a cum acu Catapla N. Cyp 3vi. ol.

dura Mater. In Gunshot Wounds, if peices of the Skull be drove into the Brain, it is Mortal. Is Mounds penetrate no further than the dura Mater they are Curable, if timely taken Care of.

Of Simple Contusions of the Head.

IN the Cure of Simple Contusions of the Scalp, In Simple which happen by a Blow or Fall. If they Consustions are attended with Pain, Inflammation and Tu. of the Head mour, the Hair is first to be shaved off, and what is first Astringent Repellents made use of, to expel the be done. Humours already Collected, and to prevent the laflux of more; to which end, the Tumour and Parts about it, may be Embrocated with ol. Rof. um aceto, or ol. Myrt. applying the following Cataplasm. B. farin. hord. fabar. ana Zvi pulv. N. Cypress. Balust. Alum. Roch. ana 3i. ros. rub. Bvi. ol. Rof. Biii. alb. ov. N. ii acet. q. f. f. Catalasma. which method of dressing is to be coninned, till the Flux of Humours is stopped. Refulfion is made also by Bleeding, and Clysters, as also anodyne Draughts, to prevent the heat and fument of the Humours. When the Influx of fumours is restrained, the remaining part of he Humours may be dispersed by Discutient Reellents; fomenting the Part with fol. Beton. fl. mthos Shechad. cham. rof. rub. bac. Myrt. &c. coiled in red Wine, Embrocating the Parts after-When the rards with ol. Ros. & Cham. But if the Tumour Tamour is comes hard and painful, and incline towards bard and uppuration; foment it whith Emollient Discutients what is to Becost. Sum.malv rad. Althan, sem. lini fenugrac. be done.

pplying a Cataplasm of the same, with farina

mdei, &c. If Extravasated Blood occasions an Ecchymofis,

Ecchymosis, Stronger Discutients are requisite mixed with Repellents; that whilst the Discu tients attenuate the Blood, the Repellents ma compress the Parts, and repel it into it's prope Vessels again, as B. farin. hord. fabar. ana 3ii fl. rof. rubr. bac. myrt. ana 31 fum. Absinth. folbeton A. Sambuc. Cham. ana Bili. sem. Cymin. Bi. pulo & coq. in vino Rubr. addend. mel. commun. 3il.d and pa Ros. & Cham. and q. s. f. Cataplasma; but if this Aftring proves ineffectual, the Tumour is to be opened from a lest the Humours lying too long under the Skin corrupt and foul the Cranium. When opened, it to be digested and deterged and cicatrized keeping the Parts close, with Compress and skull be Bandage, that they may be the more readily unite When the underneath. If the Tumour be complicated with dumour Tumour is a Concussion, the Vessels are to be emptied b

cuffin-

complicated plentiful Bleeding, repeated as necessity requires with Con-by which means the Blood will flow less plent fully upon the Part affected, and the Sympton be relieved, The Body is likewise to be ken foluble with Clysters, and the Heat of the Bloo allayed by cooling Emulfions and Juleps, Embro cating the Parts with ol. Rofar. cum aceto & Myrt. with Astringent Repellent Cataplasm When the Symptoms are abated, apply Emp. v gonis ad Contus. or R. furfur. Tritici. Ziil. farin defensatilent. Zii fl. ros. rub. bac. myrt. balust. ana Zi. Calon dressing Aromat. Zi. ss. fl. Cham. melilot ana Zs. N. v Defensationn. pulv. & coq. in Vin. auster. q. s. ad consist. Cason hea taplasm. addend. ol. cham. ros. ana Biii. If the Remedies avail not, the Part is to be opened, an the Skull perforated; to discharge what may b Extravasated on the Dura Mater.

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Of Contusion with a Wound.

If a Contusion be large, and Complicated with When a Tua Wound, and the Tumour likewise soft mour is
and pappy; and notwithstanding the use of complicated
Astringents still increase, it probably proceeds Wound.
From a Fissure in Cranio. In which case Incision
sto be made into the Tumour, and if the Cranium
he neither bare, nor any depression appear, the
Wound is to be digested and heased; but if the
kull be depressed the Scalp is to be divided, and
herforation to be made for the Discharge of the
humours in the Head.

Of Wounds of the Head by Incision.

If a Wound of the Head be made by a sharp of Incised Instrument, though the Skull be hurt, yet Wounds of to ill Symptoms appear, bring the Lips of the Head. the Wound close together, and having retained them so by Stitching, sprinkle pulv. Galeni upon the Wound, applying Emp. de Bol. or some other desensative, with Compress and Bandage, next dressing make use of Livimentum Arcai, with the Desensative and Bandage, and the Wound will soon heal and unite.

Of Wounds of the Head with Loss of Substance.

TF a Wound of the Head be made with loss of What is so substance, part of the scalp being torn away, Wounds of digest with Terebinth cum vitel. ov. et farin. hord. the Head then deterge with an Addition of mel. Commun. with lifs of rad. ireos. farcocol. &c. and with an Addition of Myrrh and Aloes incarn; or you may incarn with Linementum Arcai. If the Flesh grows loose and fpungy, touch it with the Vitriol stone, which will harden the Flesh, and dispose it to cicatrize to perfect which, a pledgit pressed out of spirit

made by Contuston.

of Wine or ag. Calcis will be sufficient. In Wounds Wounds made by contusion, though the Skull be a little bare, if the Orifice be kept open, with a smallDossil pressed out of Spirit of Wine or Tinth Myrrh, and the Part defended from the Influx of Humours by a defensative, the rest of the Wound will incarn, being kept Close with Compress and Bandage; but care must be taken, to leave room for the Discharge of the Matter, which, if retain'd would enlarge the Cavity betwixt the Skull and the Cranium, and keep them from uniting; but this may be prevented, by leaving a hole in the middle of the Compress.

What is 10 be done when the Skull is much bare.

If the Wound be so much contused as to call off a flough, and leave the Cranium much bare, though it be not foul, it will be requisite, to raspe it; otherwise the flesh will not easily grow tter T upon it, whilst the Bone is smooth and slippery; besides the external Lamina of the Bone are so the Inciss close, and interwoven with so few vessels, that filled us they are not able to cast out a Callus; especially twine of since the Vessels in the substance of the Bone re-balcit

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main entire, for as we have observed, where eiher new Flesh, or a Callus is Generated, it rises Wby Rafom the Extremities of the separated Vessels, ping is no hich are promoted by an Apposition of the ceffary. arts of the Blood to the Extremities of the Vefis; wherefore, till the Vessels are broke by rasing, and there happens a folution of Continuity be made, there can be no fuch Appolition of arts, nor no new flesh made. When the bone is How the sped, dress it with Linimentum Arcai hot, and Bone is to be dressed that will not promote the growth of new flesh, after Rafe native heat is to be rowzed with Dossils ping. ressed out of spirit of Wine, simply or in which lv. rad. ireos, aristolochia, &c. have been inled. If by a sharp Instrument, the Skull be thanting off, or into the second Table, if ere be no figns of Concussion, the wound is to cleansed, and dressed with Dossils pressed out Spirit of Wine, digesting the Lips of the found, till the Bone exfoliates : where it is to observed, that the bone is to be exfoliated om the Edges, for Medicines applyed to the iddle will not exfoliate.

Of Fissures and Fractures.

F by a fall or blow the skull be fissured or fra-ctured, the skin remaining whole the Scalp or Fractures presently to be divided by making Incision ei- the Scalp to r Angularly or Cross, or of the form of the be divided. tter T as the part requires, or will admit, a- &c. iding the Sutures or the Temporal Muscle. e Incision being made the divided Lips are to filled up with Doffils of Lint, pressed cut of wine or oxycrate, applying a plaister of Divalcit malaxed with oyl of Roses over it.

When the

Fillure or

getber.

if the Flux of Blood be great, Doffils preffed of of Oyl of Turpentine will be convenient: The part being thus filled, it is to be bound up, t the flux of Blood is stopped, that the Blood ma not disturb the Chirurgeon in discovering the Fissure: next dressing, if the fissure be so sma as not easily to be discovered, the Cranium is be wet with lnk, and when wiped off the lnk wi remain in the Fissure and discover it. fissure is not discovered by this method, thefo lowing Emplaster may be applyed, & Cera nor et flave, Thuris Ladan. ana 3ii. farin. fabar. To binth. acet. ana 3i. M. the next day the fiffure wi appear moist, where the Raspatory is to be us the whole Length of the Fiffure, defending t divided Lips of the Scalp, from external Ai by covering it with foft Linned Cloth; but if the symtoms it appear, that the dura Mater offended with extravasated blood, or sames, su ficient way is to be made, either by Raspatorie or otherwise, for its discharge.

If there be a Fracture of the skull and a fiffur if the fissure is not sufficient to releive the Du Fradure are Mater, then the Trepan is to be applyed, jorned 10- give vent to the Serum or Blood, that offends t Dura Mater; but if the fissure be sufficient discharge the Serum or Blood, the use of the But if the fracture Trepan may be forborn. attended with a depression, the Trepan is to applyed near the Depressed part, that the H mours may not only be discharged; but that t depressed part may be raised, by the help of t

Levatory.

In : that i conve the mo fion, venien it is to ned Wi ken ou means near th eft tha wound fecond Blood he Inft requen Bone is press and wo out thro ome pa

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lowing carn, R Biii. Cro

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In applying the Trepan it must be observed, Where the that it be done in such a part, as may be most Trapan is convenient for the discharge of the Matter, as in to be apply'd the most depending; and also so near the depre-manner of fion, that the depressed Bone may be also con-applying it. reniently raised. When the Trepan is placed, his to be held firm with the left hand, and turned with the right; the Trepan being often taten out, and cleansed of the foulness, by which means it will also be cooled. When you come near the second Table the pin is to be taken out, el that penetrating before the Trepan, should wound the Dura Mater. When it is near the second Table it will easily be known, by the Blood appearing about the Instrument; When he Instrument hath passed the first Table, it is requently to be taken out, to discover when the Bone is cut through; and care is to be taken not opress too hard upon it, left it slip at once thro' and wound the Dura Mater. When the bone is at through, so that it but flightly adheres in ome part, it is to be raised by the Levatory, & the Asperities on the Lower Edge of the Cranium are be taken off with the Lenticular.

When the Bone is taken out, and the Asperities of the Cranium are taken away, the Dura Mater is to be cleansed of the Blood that lyes upon it with a soft Sponge or some dry Lint, and then the Dura Mater is to be dressed with Lenients, which may secure the Membrane from Inslammation, and digest the Blood upon the Dura Mater, as Ol. or Mel. Rosar cum Rezin abietis; when the Blood is digested more of the Rezin and less of the Oyl may be added, which deterges, or the following may be used, which both deterge and intarn, B. Terebinth. venet. 3i. ol Ros. 3iv. mel. Ros. 3iii. Croci. 3i. Granor. Hermes, 3s. sem. hyperic. 3iii. Croci. 3ii. Granor. Hermes, 3s. sem. hyperic.

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ullive. W ith Ref alamint

lat. add Aloes. Bi. M. The Dura Mater being dressed with these Medicines, the perforation is to be filled up with dry Lint, and the bone dreft sed either with dry Lint or Linimentum Arcei which may also be applyed instead of the former to the Dura Mater it felf; which I have feer very successfully done by a most Ingenious Surgeon in her Majesties Navy, Mr. Will. Town with whom I had the happiness to be acquainted and fee that Case not only very dexterously, but also successfully handled; The perforation being thus taken Care off, the Lips of the Wound aren be dressed with digestives ex Terebineh. &c. with a plaister of Diacalciteos malaxed with ol. Ros, ove all. But here we are to note, that care must be taken not to continue the use of digestives to long, lest they relax the Membrane, when the Dura Mater is sufficiently digested, it may be enient deterged with Tinct. Myrrh, which will also mis Mer promote the Generation of a Callus, and haste ting Mer the Exsoliation of the bone. If the Concrete only ex Blood have lain long upon the Dura Mater, and bating, tend to Putrefaction, Mel. rosar. and Spirit of ervosu of Wine are proper to be applyed to it or me teol. R · Aovotiacum.

Fractures made by Gunshot.

When Fractures are made by Bullets or Slugs damint be done in not only the Hairy Scalp, but the Cranium all ith pulv are driven in upon the Dura Mater ; to reliev enients which, the Scalp is presently to be divided, an king the scalp and Cranium to be both raised up together. If there happen a great Flux of Blood tying We the Blood is to be wiped away with a Spunge persuo and dressed as above directed. If there be no prolitic sufficient Room for Discharge in the Fracture for. ball some state was the market declining state of the state Perforation is to be made in the most declining Score in Part, and the Fracture Bones to be raised up, and time. Such as are loose are to be taken out, dressing the lying, as other

thers with proper Medicines; and if care be iken, that they be not over grown with Spun-

y Flesh, they will Agglutinate.

In great Concussions, though there be neither what is to issue nor Fracture, it may be convenient to be done in take perforation; and if the Symptoms abate custion, ot, it is probable, that there is an Extravasation of Blood deeper, and then the dura mater is life to be perforated; and if the Coma and Parasis are not relieved by that, it is a sign that the sain is Sphacelated, and the Patient dyes Conbilive.

Of Wounds of the Dura Mater.

When the Dura Mater is Wounded, it is to How be dressed with such Medicine be dressed with such Medicines as are wounds of one and Digestive and Anadysia for the Dura enient and Digestive, and Anodyne; for fince Mater are is Membrane is of fuch exquisite sense, if sharp to be dresing Medicines are applyed, they would pre-fed. ntly exasperate ill Symptoms; and instead of lating, promote the Disorders of the Genus lervosum. Medicines proper in these Wounds reol. Rosar. or ol. Hyperic. and Mastich, mixed ith Resin. or they may be dressed with suc. daminth. Sprinkling the Membrane afterwards ith pulv.milii which also incarns; but the use of enients are not to be continu'd too long, lest rexing the Part, the Flesh grow loose and spongy; at this in the beginning may be prevented by lying Medicines, which imbibe and dry up the perfluous Moisture, and hinder the quick ppolition of Parts in incarning, as pulv.cort granor. baluft. rof. crrub. alum. aft. or the Vitri-Sione may be applyed, if used moderately and time. But if Medicines which are sufficiently lying, and which preserve also the Natural

temper of the Part be used in time; after digesti on, the Flesh will rise tolid and firm, and no be apt to thrust out a fungus. As Spirit of Win applyed with Lint or mixed with mel. rofarum or Tinet. Myrrh. or R. Spr. vini. 3vi. myrrh 31s. aleos 31. Sarcocol, thuris and 311.

But if the Dura Mater be fo much affected a to change its Colour by the Humours flowing upon it, it may be deterged and dryed, and the superfluous moisture consumed by the follow ing, & Terebinth. lot. in vin. alb. 3iii.mel.rofa Spir. Vin. ana 31. Myr. aloes, Sach. alb. ana 31 If these Wounds, by the Mater lying long upon the Dura Mater, tend to putrefaction Re Miebrida 3vi. Theriac. venet. 3ii. mel. Agypt. 3i. pulo Scord. myrrh. ana Ji. Spr. Vin. q. f. When th Putrefaction is removed it may be dreffed wit the following & ol. Terebinth. Venet. mel.rofar. an p. ag. applyed warm.

In applying these Medicines to the Dur The manner

Mater.

of dressing Mater, a Sindon is to be made use of, which ist the Dura be made of a peice of Silk or fine Linnen, answer rable to the figure and fize of the Perforation which is to be placed under the Edges of th Cranium by the Lenticular, that the Edges of the Cranium may not hurt the Dura Mater; and a peid of thread or filk is to be fastened to the Sindon that it may be pulled out as occasion offers. Whe the Dura Mater is dreffed, the Perforation is be filled with Dossils of Lint, to keep the Du Mater from rifing. When the Dura Materia carns, the Flesh rising from it increases on each fide till it unites, and then rifing up joyns wit the Callus that rifes from the Perforation which filling up the Cavity of the Cranium, last hardens and grows firmer than the Bone felf.

Of the

THE rain be rane i Membra lessels, xtrava rigin c oms, b entSym part f osed to nd diff he Wor e App Vound, oved o the Sc ant Gl he Par alen, eeding ressed, foul o at be t x. Myr rt. thur

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Of the Wounds of the Pia Mater and the Brain it felf.

THe Pia Mater adheres so closely to the Brain, of wounds that it can scarce be hurt without the Mater. rain being wounded likewise. When this Memrane is wounded it is commonly Mortal, the lembrane it felf being not only full of Blood lessels, and consequently apt to occasion great extravasations of Blood, which falling about the origin of the Nerves produce the worst of Sympoms, but like wise being of exquisite Sense, vioat Symptoms must needs attend the Wounds of part so sensible. Besides the Brain being exofed to the Influence of External Air, is chilled and disposed to Corruption, and works out of and disposed to Corruption, and works out of the Wound: If there be any Encouragement to the Wound: If there be any Encouragement to the Applications, that you may come at the How they we would the state of flesh and bones are to be are to be we would out of the way; and the shattered Lips applyed. If the Scalp are to be divided, that their contains and Gleet may not fall upon the Parts within. The Part wounded is to be dressed with pulv. he Part wounded is to be diened with part.

eld alen, cum pil. Leporis, et alb. ovi. to stop the
led leeding, and the rest of the Wound is to be
he ressed, as in fractures in Cranio. If the Bone
ste foul dress it with Linimentum Arcai, or if
lut at be too moist. Tinct. Myrrh. or B. Spr. Vin.

In X. Myrrh. 3i. aloes. 3i. ss. rad peuced aristolochia. n. thur. 3 is. pulv. et M. pro usu. If the Brain vit contained within its Membranes, and they distand incarn, the rest of the Cure is to be mpleated as in Fractures in Cranio. As for ounds of the Brain a great many Medicines feveral Authors have been proposed, but ce such Wounds are commonly so Desperate, d Incurable, that they will not admit of time T 2

Of Wounds of the Head. Part.III

for Applications; and fince those Medicines when applyed prove ineffectual, I shall not here trou ble the Reader with proposing such Medicines a the Desperateness of the Case will allow no On portunity of making use of.

Having thus far considered the several kind men is to of Wounds the Head is subject to, whether the be observ'daffect the Hairy Scalp, the Cranium or the Mem in Wounds branes contained within it, I shall here in Genera

of the Head add, that in all Wounds of the Head, which ar considerable, General Evacuations are to b made, whether the Body abound with Humour peccant in Quantity or Quality, and that, no only by bleeding, as the Strength of the Patien will admit, but also by Lenient Purges; as also Der vation and Repulsion are to be made by cuppin The Indisposition of the Blood or fontanels. likewise to be corrected by Internals, as Electua ries, Emulsions or Traumatick Decoctions as the Nature of the Case requires of Beton. Artemis caryophill. primula veris, lil. Conval, Salvia. Hype rici. Sanicula. Veronica. N. Mosch. &c. in Win and Water or small Ale, as for Example. B. fa nic. beton. Veron. Artemis. ana 31. Cons. ros. rub caryophil. 31s. Tormentil. 3ii. cog. in ag. font. vin. Rhenan. ana thii. Vase Calauso in B. M. Cola tur. Cap. Biv. mane & sero.











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AN

APPENDIX

TO THE

Third PART

OF

Sunshot-WOUNDS, &c.

CHAP. I.

the Cure of Gunshot-Wounds, the Extraction of Bullets and the Dressing after Extraction.



Unshot-Wounds are not only So-Accidents lutions of Continuity, but are awending attended with Contusion, Attri-Gunshottion and Dilaceration; and fre-Wounds, quently with Fractures and other Accidents, as Hæmorrhagy, In-

ammation, Erysipelas, Gangrene and Spha-

278 Of the Cure of Gun fot-Wounds. Part. III

Extraneous In dressing of these Wounds it is to be obserted. Sodies wed, that if a Considerable Hæmorrhagy happens when to be it must be presently stopped, and rather be Actual Cautery than other Applications; bu first the Extraneous Bodies are to be drawn out whilst the Wound is Fresh and Warm, for afte the first and second day, the Wound become so instanced and tumifyed, that they cannot be

extracted without great Pain.

Extraneous Bodies are to be Extracted, either W bich way. the way they went in, or that they were inclined to go out. To take them out the way they wen in, the Part must be placed as near as may be in the same Posture the Wound was received in, and being found out by the help of a Prob may be taken out with a convenient Instrumen If it cannot be found in the Wound by the All stance of a Probe, try to discover it by handling the Parts; or it perhaps may appear by the Pain of the Part where it is lodged; and the if it cannot be taken out the way it went if Incision is to be made in order to take it out the way it may be most conveniently come at, by care must be taken to avoid Wounding the Tel dons, Nerves, Veins or Arteries. And in es tracting the Bullet, care must be likewise take that the Instrument take not hold of a Ner or a Tendon; to avoid which danger the l strument is not to be opened till you take ho of the Bullet, without any of the Circumjace Parts.

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When the Bullet is taken out, or any other How the extraneous Bodies, The Wound is to be dreffed Part is to with Lenient Digestives, to asswage the Pain after Exof the Dilacerated Parts as ol. Catellorum as hot reasion. as the Part will bear it, ol.lil. Lumbricor.or Linimentum Arcai with any of the above mentioned Oyls, or ol. Terebinth, may be made use of, or By Terebinth. apt. 3iv. Thur. Mastich. ana 3iii. Myrrh. 3i. ol. Aparici 3ii ol. Lumbricor Sambuc. ana Bili. M.or Rololiv. tbi. Terebinth. th fsgum. Elemi. 3ii. Erugin. pulv. 3ii. These Medicines are to be applyed on proportionable Tents or Pledgits, embrocating the Part with of Lumbricor. rofar. & acet. which will discuss and repel the Humours already flowed to the Part, whilft the Influx of Humours is likewise prevented by a Defensative of pulv.rof. rubr. bol. Armen terra sigitlata sang. Dracon Suc. plantag. Solan. &c. which with of. rosar. Myrt. &c. may be made up in the form of a Cerot; then apply a Compress wrung out of oxycrate or red Wine with moderate Bandage. The Humours are likewise to be prevented from flowing upon the Part by convenient Evacuations, and emptying of the Veffels, as by Bleeding, Lenient Purges or Clysters; and a moderate spare Diet is likewise to be observed, to cool the Blood and prevent Inflammation. The Disorder of the Spirits and hot ferment of the Blood may be also mitigated by Anodyne Draughts: And if Occasion requires it, the Spirits may be supported with moderate Cordials. If the Bone happen to be bare, dress it with extract. scord. dissolved in mel. rosar.

280 Of the Cure of Gunshot-Wounds. Part.III.

The method The Next dressing, the Wound ought to be of the Se-stuped with Cloths wrung out of the following cond dress Decoction, or such like, which will give a breathing to the Part, and by preserving the Natural heat will promote digestion. B. Summit. Hyper. scord. lent. absinth. ana. M. i. st. ros. cham. mel.

thing to the Part, and by preserving the Natural heat will promote digestion. Be. Summit. Hyper. Scord. lent. absinth. ana. M. i. st. ros. cham. mel. Sambuc. ana M. i. st. furfuris. P. i. coq. in aq. font. ad thii. ss. Colat. add. vin. auster. 3i. spr. Vin. 3 vii M. f. Fomentatio. If the Wound be very painful, the part may be somented with Emollients of Rad. Althan. malv. sol. Verbasc. Cham. melilot, sem. lini. senugrac. &c. If the Wound be in good Condition, Digestives may be continued till the Ninth Day; then deterge with precipitat. and Unguent Apostolor. and incarn, adding Aloss. Myrrh. sarcocol. rad. Aristolochia. Gentian. Ireos. &c. or Tinst of Myrrh, it self applyed with Dossils or Pledgits as occasion requires.

CHAP.

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CHAP. II.

Of the Accidents that attend Gunshot-Wounds.



Un-shot Wounds in the Beginning are subject to several Accidents, as Pain and Inflammation, Erysipelas, Gangrene, Hæmorrhaggy, Palsie and Convulsions.

Inflammation and Eryfipelas may be prevented How Pain by the timely use of such Medicines as resist the inflammatilins of Humours; also by due Evacuations by on a an E. Bleeding and Purging. If Pain, Inflammation or respelas are an Erysipulas affect the Part, the first are to be veused. relieved by Emollient Anodyes; and what Method is proper to remove the Erysipelas will appear, from what hath been said of that Disease in the first part of Tumours.

Heat, or by the false Applications of Medicines, Gangrene the Natural Temper of the part is destroyed; or is to be by the Afflux of ill disposed and depraved Hu-relieved. mours, the flesh in a Wound begins to look livid, and discharges a thin Gleet, instead of digesting, and begin, to mortify; the Lips of the Wound are to be scarifyed so deep, as to come to the sound flesh; which scarifications are to be permitted to bleed freely, that vent may be given to the peccant humours choaked up in the Vessels about the Wound; and also, that Medicines applyed may have their true effects. Then the part

282 Of the Accidents that attend, &c. Part. III.

Absinth. and Centaur. &c. have been boyled; and having washed the Scarifications with the same, dress them with Agyptiac. and Theriac. venet, dissolved in Vinegar, adding calcined Vitriol; when the Mortification is stopped, the Eschar is to be separated by Digestives; and then deterterged incarned and cicatrized.

Hamerrha. If a violent flux of Blood happen, and will gieswhat is not be stopped by the Use of Astringents, or ol. so be done. Terebinth. with Compress and Bandage, or with

Defensatives; then the Vessel is to be shrunk by an Actual Cautery, or secured by deligation.

If Gun shot Wounds are attended with a large

Afflux of Humours; and they infinuate betwixt

How Sinu- the Interstices of the Muscles, where Bandage
of the prevented. cannot be made; to keep the Parts close and

able to refift these Humours from extending a finus; or the Bullet yet remain within the Wound. and cannot easily be got out; to prevent finuofity, the Orifice is to be enlarged. And if notwithstanding, neither by altering the Position of the Part, nor by Compress and Bandage, nor hollow Tents the Matter can be discharged, a declining Orifice is to be made by Caustick, or Incision; but if there be hopes of discharging the Matter by Compress and Bandage, the Compresses may be wrung out of an Infusion fl. rof. rubr. myrt. cort. granat. baluft. N. Cypress. Sumach. &c. and Injections used to promote the uniting of the Parts, with the following viz. Myrrh, aloes, farcocol. rad.ireos. Ariftolochia, fpr. Vin. mel. rof. or Tinet. Myrrh. If Convulsions happen upon a Wound it is Mortal; but a Palsie may be occasioned by the breach of a particular branch of a Nerve, which only Impairs the part that Nerve supplyed with spirits, and so produce a Paralysis of that Part.

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CHAP. III.

Of Gunshot-Wounds with Fracture.

a Wound be complicated with signs of a Fracture, the Fracture may be Fractures discovered, First, by comparing complicated the found Part with the other, with a which will differ. Secondly, a Cavity may be felt both above

and below the Fracture. Thirdly, by the Attrition of the hard Parts, you may perceive a crackling. Fourthly, there will be violent Pain, and and a pricking of the Flesh, either with the Extremities, or some Splinters of the Bone. Fifthly, by the impotency of the Part. Sixthly, It may be supposed from the violence of the Antecedent Cause. And Lastly, from the unevenness and inequality of the Bones.

The Bones are sooner united in Sanguine than The Proga-Cholerick Constitutions, the Cholerick Serum nosticks. fretting and obstructing the more ready apposition of the Parts of the Blood. Again Fractures are less Dangerous in the middle of a Joynt, then when they happen near the Joynt, where they

are harder to be reduced, and more difficultly retained in their proper places.

Those Fractures are most Dangerous, which are deepest in the Flesh; especially when there happens to be a Comminution, and the Nerves and Tendons are pricked and torn, occasioning violent Pain, Inflammation, Convulsions and Death; except relieved by extracting those Splinters, or by taking off the Member.

The

284 Of Gunshot-Wounds with Fracture. Part. III.

What is to In order to the Cure of Gunshot-Wounds with be done Fracture. the Wound is first to be cleansed of when a extraneous Bodies. If the Fracture happen near complicated the Joynt, the violence of the Blow often Occawish a Diff sions a Dislocation, which is to be reduced before you meddle with the Fracture; and if the Parts are so torn that there is no hopes of uniting again, the Musculous Hesh is to be divided and smoothed, and then hawled up, whilst the end of the Bone is sawed off.

But when a Fracture happens to be made with If afracture be complia Wound, and no Diflocation; first the Fracture cate bow it is to be reduced, and then the Wound is to be is to be re- Considered. In reducing the Fracture, Extenduced. tion is to be made, which is to be gentle and made with Caution, lest the lacerated and bruifed Parts be too much inflamed and rendered Painful, by too violent and rough handling. And first it will be requisite, before extention, to remove all extraneous Bodies, and if the Wound be not large enough, it is to be made fo by incision, that the extraneous Bodies may be more easily taken out of the Way, by which means, the extention will be more easily made, and not be obstructed by them in reducing the Bones.

When the Fracture is reduced, if the Bone be Bone is to bare. it must be dressed with dry Lint, sirst be dressed. sprinkling it with the powder of Myrrh. aloes. thus. rad. Ireos, &c. dressing the Parts about it with warm Digestives, then apply emplast. de Bol. about the Fractured Part, and over the Wound a stupe or double Cloth wrung out of a Decoction of st. ros. rub. balust. sumaeh. bac. myrtil. sum. Absinth, &c. in red Wine, which will keep the Lips of the Wound smooth and even.

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Ch.III.Of Gunshot-Wounds with Fracture. 285

The Wound being thus dressed, over the Com- What Ban' press you are to bring the Ninetailed Bandage, dage is to which is to be made of a foft peice of Cloth three be made. fould, and of fuch a Breadth as may encompass both the Lips of the Wound and the Fractured Parts, and long enough to come once about the This Cloth is to be divided by three Fracture. Slits, reaching from the ends to the middle, which is to be placed under the Fracture opposite to the Wound; and the ends are to be brought one over another, and over the Compress, which is placed over the Wound. This Bandage is to be fo placed, that the middle fould being opened. may leave room sufficient for dressing the Wound.

When the Pain and Inflammation are over, which of splenia is about the Seventh day, and the Flux of Hu-and Ferula. mours is restrained, Splenia may be applied, made of Linnen Cloth sour double, and cut like the Ferula: over these Splenia, the ninetailed Bandage is to be made, and over that, the part may be supported with peices of pastboard, or thin Lamina of Tin, which are to be so placed, that they may support the Fractured parts, and leave soom for the dressing of the Wouad; these Lamina or peices of pastboard are to be retained and kept fast, by three Ligatures, which are to be made fast, in such places as may be most easy to the Patient.

The Fracture and Wound being both thus ta- The Part to ken care of, the Part is to be placed in a due Po- be put in a sition; so that it may lye soft, and equal, and convenient that it may be neither hurt, which would occasionPain and Inflammation; nor distorted, which would alter the Natural shape and dissigure the Part. The Part is likewise to be raised a little, that it may not be subject to the Inslux of Humours.

When

Of Gunshot-Wounds with Fracture. Part III.

When the Wound is digested, and the Accidage when dents of Pain and Inflammation removed, which so beloofed is about the Seventh or Ninth day, the Bandage is to be loofened and the Restoratives taken off. applying fuch Medicinesas may strengthen the Part and promote the Generation of a Callus, as Emplast. Catagmaticum, or Be Emp. Stiet. Paracell. p. ii. Emp. diachalcit. p. j. Misc. over this a Com. press is to be placed, dipt in red Wine as above directed; then make use of the Ninetailed Ban. dage, and over it, Lamina of Tin or Copper, or

> The Wounds being sufficiently digested, deterge with Mund. Paracels. or B. Vinc. pervinc. peti, persicaria beton ana M. j. Flor. hyperic Verbasc.ana P. j. Rad. Aristolochia utrinfq. 31s. thuris, Myrth. Sarcocol. ireos ana 3ii. cog. in Vino alb. addend Co. latur. mellis rosacei q. f. which will both deterge and incarn: or may be made into an Unquent. by an Addition of Terebinth. cer. & ol. Hyperici.

> the Splenia of double Cloth dipped in whites of

If a Caries happen in the Bone, drefs it witha Decoction of Scord. Vinc. pervinc. pencedanum, gentian. rad. Irid. and Myrrh. in Claret adding Spirit of Wine. Or Extract. Scord. or it may be dref-

fed with Tinet. of Myrrh. &c.

Eggs.

In all these Cases vulnerary drinks are conve-Valuerary nient, not only to alter the temper of the Hu- Mastici Drinks mote the Generation of a Callus. As B. Aristoloch. Sum. 3 rotund. Bii, fol. serpentar. consolid. utrinsq; geranii ato the Columb. Sanicula ana M. j. in theii Vin. coet. of then en which 3ii. may be given twice a day with a pperici, drachm of ofteocol. How these Medicines are il & f.

serviceable in respect of the Wound, or promote . ros. r a Callus I have already shewn elsewhere.

CHAP.

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CHAP. IV.

Of Gunshot-Wounds of the Joynts.



Ounds of the Joynts are not on- The Progly dangerous, and difficult to nosticks. cure, but very painful; The Tendons, Membranes and Nerves, which are about them, being of exquisite sense, and if

the Joynt be great, they are subject to very vioent Symptoms and Accidents, as Pain, Inflammaion, Delirium, Convulsions, Gangrene; and are often Mortal.

In the Cure of these Wounds, the Extraneous What is to Bodies are presently to be extracted; and if the be done in Wound be not large enough it is to be enlarged, taking Care not to wound any great Vessels, which may occasion an Effusion of Blood.

Extraneous Bodies being extracted, the Digestives. Wound is to be dressed with some of the following Digestives hot, upon Dossils or Pledgits. Re. Terebinth. lot. in Spirit. Vini. Ziiii. Thur Myrrh. Mastich. ana Zi. ol. hyyerici. Ziii. Vitel. ov. No. ii. Groci. Jii. M. or R. ol. Terebinth. Zi. ol. hyper. cum Sum. Zii. Euphorb. pulv Zi. M. drop this warm nto the Wound, applying the digestive over it; hen embrocate the parts with ol. lumbricor, Emperici, applying the following Cataplasm over Ill Re farin. hord sabar. ana thi. sl. cham. melilot. I. ros. rub. scord. Absinth. pulv. ana Zvi. decost. in Brodio, or Oxymel. adding ol. ros. et cham. this by Discussing and Lenient Astringency will discrese what Humours might settle about the part, ad mitigate the Pai n.

Of Gunshot-Wounds of the Belly. Part. III. Chap

The Wound digested deterge with the follow- wire to ing B. Farin. orob. 3i. ss. Thur. rad ireos, and 3vi, Wound suc. apii. 3iii. mel. com. et Terebinth. and 3ii, sluxion M. when deterged the following may be made which to use of to incarn B. sum. hyperic. equiset. plantag. be- ations on P. i. Rad consolid. Maj. tormentil. When

To incarn. ton. and P. J. Rad confolid. Maj. tormentil. Bili. sev. hercin. Billi. Lumbric. terrest. lot. ol. hough Mastich. ana Bil. Vin. odorif q s. Coq. ad Consumpt. Vini, postea colentur forti expressione, deinde asions add. rezin. pini. 31. Thuris. Mastich. Myrrh, aloes, hing. be bare care must be taken not to foul it, by imatio greafy Applications. If the Symptoms be vio. lent and are not releived by Anodynes &c. Care ewour is to be taken to make Amputation, before the w. It Spirits are too much exhaulted.

CHAP. V.

Of Gunshot-Wounds of the Belly.

Difference.



Un-shot Wounds of the Belly are either penetrating or not. Those which are not penetrating are of ten Superficial, the Skin being only scratched and a little ulty of discoulered; yet since these are either

fubject to I umour, the Part under being a little reters bruised, it will be convenient to embrocate with a Wo Lenients as ol. Cham. et Rosar. and apply Emplast. ension de Bol. to prevent Fluxion and Tumour. But e Growhen these Wounds penetrate the Skin, they require at. quire

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uire the same Medicines as simple Gunshot-Wounds; only these parts are more subject to luxion, being lax and in constant Motion; thich makes Bandage and other external Appliations less effectual.

When Wounds penetrate the Peritonæum, The Dieghough no internal part be really wounded; yet nofficks. he Contusion is so great, that it commonly ocassons violent Colicks, and a difficulty of Brea-

hing.

But when the Internal Viscera are hurt, the ituation of Part, and other Symptoms proper beach part, will make it evident. If the Liver ewounded, an Effusion of gross Blood will folw. If the Vena Cava or Forta be wounded, the ght Hypocondrium will be oppressed; and if e Artery be hurt, the Blood will be florid d flow out violently, and the Patient foon res. If the Stomach be wounded, the Person will etroubled with Singultus, Nausea and Vomiting, dColdSweats, the Contents of the Stomach with eChyle coming out at the Wound. If the small ats are wounded, the Chyle will come out at e Wound, and if the Great Guts are Damnied, it will appear by the smell of the Excreents. If the Spleen be wounded, the Blood the flows out will be black, and the Person af-ded with a Tension and Difficulty of Brea-ing. If the Kidneys are wounded, the Pain at flows out will be black, and the Person afextended to the Groin and Testicles, with a dif-entry of Urine, and that which is discharged either Bloody or altogether Blood. If the reters be wounded, the Urine comes out as the Wound. If the Bladder is hurt, there is a extended to the Groin and Testicles, with a difension of that part of the Beny, given part of the Groin, and the Urine is discharged at the Jound, and the Stomach is affected by Conension of that part of the Belly, great pain in

290 Of Gunshot-Wounds of the Belly. Part. III.

The Prog-

Wounds of the External Parts of the Belly are dangerous, especially if the Linea alba be wounded. But when they penetrate the Peritonaum they seldom recover.

Intentions of Cure.

In order to the Cure, first the Bullet is to be extracted, and other extraneous Bodies, lest the offend the Viscera, or occasion greater Putresaction; and the Intestines and Omentum are to be reduced, lest they corrupt or inflate, by bein exposed to the External Air.

This being done, Digestion is to be promo

ted, and the Inflammation releived.

To reduce the Intestines or Omentum.

If the Intestines and Omentum are not easily reduced, they are to be fomented with war Discutients; and if the Wound is not large nough, it is to be enlarged by Incision, If the Omentum be tainted, the Corrupted Part is to separated by Making a Ligature, and cutting it off, leaving the ends out, till they cast off the Digestion.

If there be a Hæmorrhagy, you are to ender be done to vour to stop it by Astringent Injections. as, a stop an Ha-Urt. Sperm. Ranar. plantag. or Vin. rubr. cum morrbagy. de Ros. sic. addend. pulv. bol. armen. terra siquilla sang. dracon. aloe. Thur. &c. Astringent powde may also be applyed, mixed with a new la Egg, upon a Tent made fast by a thread, the it may not fall into the Cavity of the Abdome when the Hæmorrhagy is stopped, digestive

are to be made use of.

What is to In Wounds of the Stomach and Guts, the following in lowing Medicines are recommended. B. fol. Wounds of losel. plantag. rad. tormentil. confolid. Maj. flor. h. the Stomach perici. coq. in Vin. Rubr. et Colat. add. Ma and Guts. Thur. ol. Mastich, resin. abiet. Terebinth. Gypt Croci et Verm. terrest and q. f. f. Sarcet. The ternal Wound is to be dressed with Digestiv

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and the Natural Heat of the Parts preserved, with Fomentations, Embrocations and Cata-

plasms.

In Wounds of the Kidneys Astringents are In Wounds also proper, and such as prevent Putresacti- of the Kidon, as rad. Consolid. irid. Aristolochia, rot. myrt. caud. equin. plantag. balust. in aq. Chalyb. cost. addend. Vin. rubrum. et syr. de Ros. siccis. After the injection dress the Wound with a digestive ex Terebinth. cum integ. ov. terra sigillat. Thur. et mastuch, and embrocate the Parts with ol. Hyperici, with emplast. Diacalcit. malaxed with Oyl of Roles over all.

If the Liver or Spleen be wounded the flux of Blood will be considerable, to obviate which R. Plantag. pentaphil. polygon. millefol. myrt. ros. rubr. in aq. Chalyb. coet. addend. syr. de Rosis sic. which may be used as an Injection, applying Sang. Dracon. bol. Armen. pulv. Thuris. &c. made up in the form of a Liniment. with the Juices of some of the abovementioned Herbs, upon Pled-

gits or Tents.

V₂ CHAP.

CHAP. VI.

Of Gunshot-Wounds in the Thorax.

Difference.



Ounds of the Thorax are cithe Superficial, of the External Parts or penetrate through the Rib and Pleura, and frequently Wound the Principal Viscera. If the Wounds do not penetrat

into the Cavity of the Thorax, they are cured a Gun-shot Wounds in other Fleshly Parts. If the integr. Ribs are broke they are to be treated as Wound and a with Fracture, the Splinters of Bones which The V might offend the adjacent Parts being take on, w out.

The Diagzofticks.

Thorax, the Air upon Respiration will make prince.
Noise when it goes out: and the Blood will flow bel. A out either by the Wound or Mouth or both; but tenient if it be retained and sall down upon the Diaphraging sufficient will appear by the Difficulty of Breathing Wound and other Symptoms. If the Lungs are Wound the Wound ed, it will be attended with a Cough, difficult Medicing of breathing, and frequent sighing, the Blooms flowing out of the Wound. Or discharged he senient flowing out of the Wound, or discharged by venient Coughing, the Person desiring to lye upon the Wound. If the Heart be Wounded, the essuing and the state of Plant in the Heart be Wounded, the essuing and the state of Plant in the Heart be Wounded, the essuing and the state of Plant in the Heart be Wounded, the essuing and the state of Plant in the Heart be Wounded, the essuing and the state of Plant in the Heart be wounded, the essuing and the state of Plant in the Heart be wounded, the essuing and the state of Plant in the Heart be wounded, the essuing and the state of Plant in the Heart be wounded, the essuing and the state of Plant in the Heart be wounded, the essuing and the state of Plant in the Heart be wounded, the essuing and the state of Plant in the Heart be wounded, the essuing and the state of Plant in the Heart be wounded, the essuing and the state of the state o on of Blood is violent and hot, the Spirits pre fently fink, and cold Sweats are the forerunner of a sudden Death. When the Diaphrag ma is hur the Person is affected with a Difficulty of Bre thing, a hoarsness, and Pain about the short Ribs

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the Spine is also affected, and the Diaphragma drawn up. If the great Artery be hurt, the Effusion of Blood is impetuous, and flows from the left side, if the Vena Cava be Wounded, it flows from the right side. If the Spinal Marrow be hurt, a Palsie of the whole follows below the Wound.

Most of these Wounds are Mortal; and the Fregin some, life may be prolonged, yet seldom any nosticks.

recovers.

In order to the Cure of these Wounds, the Ex- Intentions traneous Bodies are first to be extracted, and of Cure. then the Wound is to be dressed with Astringents to restrain the Bleeding. As R bol. armen. C. C. uft. ol. rof. & Sambuc. farin. volat. cum ov. integr. M. Which may be applyed upon a Tent, and a Compress spread with the same over it. The Vessels are also to be emptyed by Venesection, which is to be repeated as often as conveniat. Injections may likewise be made use of, sa Decoction of fol. plantagulm. urtice, vinc. urvinc. rof. rub. fol. myrt. in aq. germ. querc. with Bel. Armen, and Syr. de Symphyt, which are conrenient in these sort of Wounds, the Orifice being sufficient to discharge them again; whereas in Wounds by Puncture, Injections are prejudicial, he Wound being too small to give vent to the Medicine injected. But besides Externals and Ineflions, internally Traumatick Decoctions are conenient, and Electuaries made of Astringent owders, and fuch Gummy and Refinuous Meditines as thicken the Blood and Serum, and llay that Extraordinary heat which keeps the Blood thin.

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Of Gunshot-Wounds in the Thorax. Part. III.

The Effusion of Blood being stopped, the Wound is to be dreffed with Digeftives, as R Terebinth. lot. in Decost. bord. 311. pulv. Thur. Murrh ana Jii. sem. fenugrac. pulv. 3i. ol. hyperici. q. f. applyed upon a short Tent, with a pledgit of the same over it, embrocating the Parts about it with a mixture of ol. amygd. dulc. Lumbricor.6 Unquent. de Althea, which is both Emollient, Annodyne and Discutient. This being done apply Emp. Diachil. Simp. malaxed with the same mix ture over all. The Wound being digested, de terge and incarn, which may be done either by Injection, or by a proper Unquent. If Injection are proper a Decoction of Pilofel. with mel.rofarun may be used, or R fol. pilosel. Cand. equin. Planag tormentil. Confolid. Rad. Ariftoloch. rot. rad. iride Sarcocol. cog. in ag. font. addend. mel. Ros. g. s.0 the following Unquent. may be used, with which the Wounds externally may be dressed also, Terebinth 311. farin. hord. cribat 31. Thuris sarca col. rad. irid. ana Bill. mel. rofar. Billi. M. there be any Sloughs externally, which may dil charge a troublesome Gleet offensive to the Part within, they are to be cut off before the Woun is digested.

When the Flux of Blood is stopped and the Wound begins to digest, instead of Traumatic Decoctions, Decoctum Pectorale may be given, or CowsMilk sweeten'd with Sugar of Roses, their Die is also to be Slender and Incrassating; yet ought to consist of such things as afford good Nourishment; and make fost and mild Chyle which may not offend the Parts within, either by it's Saltness or Acrimony; nor increase the heat and ferment of the Humours within. The Body is likewise to be kept open with Clyster and the heat of the Blood tempered with proper

Emulsions, &c.

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CHAP. VII.

Of Burns with Gunpowder.

Hen any Part of the Body hap. The first pens to be burnt the Method of Intention. Cure is much the same, only as it differs according to the degree and violence of the Cause. If they are burnt with Gunpow-

der, the powder is to be first picked out, lest it stain the skin, and leave the marks behind, which afterwards cannot be removed without

taking off the Skin.

If the Part be burned superficially, the Cuti- The Reason cula will be raised in Blisters, the Texture of of plisters. the Cuticle being destroyed by the fire, whilst the Heat and Inflammation of the Part rarifyes the Blood in the Cutis, and promotes the Separation of the Serum in the Cutaneous Glands, which being separated faster than Naturally, and not separated through the pores of the Cuticula as it ought to be, it is heaped up betwixt the Cutis and Cuticula and separates the latter. If the Burn penetrates deeper, it destroys the Tacture of the Skin, and forms an Eschar, which by being more violent is burnt into a hard crust.

The method or Cure.

In theCure of theseBurns, either Cooling and Re. frigerant Medicines are used which take off the heat of the Part, or warm Applications which eafe the Pain by rarifying the Humours and opening the pores of the Cutis and Cuticle, Refrigerants which are also Anodyne, and asswage the Pain by dulling the sence of the Nervous Papilla are ag. solan. plantag. hyosciam. lac butyrum. Refri. gerants which cool the Parts, are Unquent. album nutritum, populeon, rofatum, &c. which are to be applyed warm, left they should obstruct the pores, and prevent the discharge of the hot Inflamed Serum. When the Heat is off and the Eschar separated, the Ulcerated Parts are to be digested and cicatrized.

relieve Bu ns.

Why warm Hot Medicines relieve and ease the Pain by o. Medicines pening the pores of the Skin, and raryfying the Humours by which they are more inclined to go off by Transpiration, whereas when they are heaped up and grow more acrid by being retain. ed, they corrode and ulcerate the Parts, and violently affect the Nervous Papilla or Sensible Membranes and are more Painful. To this Intent a red hot Iron may be held before the Part, or by applying an Onion beaten together with Salt, but these Methods are not to be used when the Cuticle is separated, and it's pores destroyed, fince then they cannot give vent to the rarified Serum; but would rather increase the Pain and Inflammation; nor are these Methods to be used when the skin is off, fince then they exasperate the Pain, by increasing the Heat of the Part, and affecting the Nervous Parts. Other on. M. things which promote Transpiration by their they ar Discutient Qualities, and also ease the Pain by A G their Anodyne Parts, are Fimus equinus fryed in by any ol. Nucum, sambucus, ebulus in ol. Cost. Emp. de ind Tes Mucilaginibus, or Unquent. de Altha.

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If by these Applications the skin is not prevented from rising in Blisters, the Blisters are to be cut; lest the Humours retained acquire a farther degree of Acrimony, and Ulcerate the Parts. If the Parts be Ulcerated, or if an Eschar be made, or the skin burnt to a Crust, the Separation of the Eschar is to be made by Emollients, and when separated, the Exulcerations are to be digested incarned and cicatrized.

If these burns be considerable or the Exulcerations large; to prevent Instammation and Fever, Bleeding is requisite, and also Purging, especially if the Constitution be ill, and abound with Cacochymia. The Diet is also to be regulated according to the Degrees of the Symptoms,

and the Constitution of the Patient.

CHAP. VIII.

Of a Gangrene and Sphacelus.



Ometimes Gunshot-Wounds as Definition well as Wounds with greatCon- and Diffetusion terminate in a Gangrene rence. and Sphacelus; Gangrene is a tendency to Mortification, and Sphacelus a perfect Mortificati-

er on. Mortifications differ from one another as

A Gangrene or Sphacelus may be occasioned The Causes.

In Many thing that destroys the Natural Heat

Ind Texture of the Part. And First, a Gangrene

may be occasioned by too hard Bandage, which

obstructs

obstructs the Circulation of the Blood and Spirits, and confequently the Humours Stagnate and Corrupt and Putrify the Parts. Secondly, A Gangrene may be occasioned for want of Extra. cting of Extraneous Bodies in due time, which occasion Pain and Inflammation, and confequently Tumour and Fluxion, so that at the last the Vessels are so crouded, that they obstruct one another, and the Humours in the obstructed Vessels coagulate and corrupt, for want of a difcharge of the superfluous Quantity into the Wound; for First, the Extremities of the Vesfels in the Wound being obstructed by the Contusion, the Vessels having no vent into the Wound, they tumify, which is called Fluxion, and then the Vessels tumifyed occasion Pain, and Inflammation; but how these Symptoms are occasion'd I have elsewhere more fully explained in the first Part. But to proceed, Thirdly, A Gangrene may be occasioned by extream Cold, by which the Blood and Spirits are at once coagulated, and corrupt and putrify the Parts. Fourthly, A Gangrene may be promoted by a Natural decay of Heat, by which means nature is not able to ieparate and cast off the Corrupted Parts, but the putrifyed Parts still corrupt and destroy the found Fifthly, A Gangrene may be occasioned by an undue Application of Medicines, which if they be too Cold extinguish the Natural Heat, so that instead of the Extremities of the Vessels being cleared of that Matter or Contused Flesh, which obstructs the Vessels, and hinders their discharge, they depress the Natural Heat and in crease the Obstruction, which choaks up the Vesfels, makes Tumour, and confequently Coagulation, Corruption and Putrifaction. If the Medicines are too hot, they increase the Imtemperies of the Part, and instead of correcting their

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ill Qualities, they encrease and add to their Acrimony, and render them more corroding; and consequently they fret and destroy the Parts. Sixthly, A Gangrene may depend upon the ill Crasis and Disposition of the Humours, being depraved, either by the Hereditary ill Qualities of the Humours or by an Habitual Indisposition, acquired by the faults of Concoction and the ill depraved Ferments of the Parts; how the Humours may be thus depraved we have elfewhere explained in the First Part of this Book in the Chapters of Scirrbus and Cancer, and in the Second of Phagedana and Noma; where we have hewn, that the Corrofive Particles that occasion a Gangrene differ only in degree from theseCorrofive Ulcers, they frequently terminating in a Mortification. The Nature of a Mortification likewise may further be illustrated by what we have faid of a Carbuncle and it's Causes. So that we shall not repeat what we have there said, but only here be content to represent, that a Gangrene and Sphacelus proceed from a Humour, which by it's Corrolive and Acrimonious Parts destroys the Texture of the Humours, and the Contexture of the Vessels, which may be produced any of the above mentioned ways.

The figns of a Gangrene are a Pale Livid Co-The Ditaglour in the Skin, and a Diminution of the Tu-nosticks. mour, Blisters also presently succeed, the Native heat being decayed, and the serum consequently condensing, and becoming too thick to transpire through the Cuticula; soon after the Skin turns black, the Blood also condensing and coagulating in the Cutis. As for the Pale, Livid Colour, and the Diminution of the Tumour, they are occasioned, by the decay of the Natural Heat of the Part, the Parts growing cold and flaccid, and not apt to be distended and pussed up with

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hot fermenting Blood; so that the Symptoms of Fluxion disappear, and the Vessels subside as the Humours lose their heat and fermenting Quality. In Wounds, for the same Reason, the Lips fink and are flaccid, as the Pulse, and sense

of the Part both decay.

In a Sphacelus the Part hath wholly loft both its Sense and Circulation, and the Humours coagulate, corrupt and stink. If a Gangrene proceed from Tumour Pain and Inflammation, those Symp. toms preceding will make it appear, though the Tumour subside when the part begins to Gangrene. If it proceeds from Cold the Part is first benummed, the Patient being seized with Horror and Rigor, and a pricking pain in the Part; the part hath also a redness, which when it mortifyes turns black, the Blood before only Stagnating, but now Coagulated. If it proceed from too strict Bandage, the part is flaccid and Insensible, the Circulation both of the Blood and Spirits being intercepted. If it be occasioned through a Natural decay of the Body, the part is emaciated, and flaccid, for want of Blood and Spirits; and the Extreme Parts are most subject to it, where the Blood and Spirits leaft shew their Vigour.

The Prognosticks.

All Gangrenes are dangerous; but those least, which proceed from Inflammation in the External Parts, and these are more or less so, according to the difference of the Constitution, and the Progress of the Mortification. In Gun-shot Wounds, where they are deep or near the Joynts they are proportionably dangerous. In Fat and Hydropical Bodies, which abound with a great Quantity of superfluous Humours, they are most dangerous, the Temper of the parts and Native heat being foon destroyed. But when they depend upon an Ill depraved indisposition of the

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peries.

In a Sphacelus there is no other Remedy, but the separation of the mortifyed part, the Mortification interposing and hindring the Effects of all external Applications. If any of the Mortifyed part remains, the putrifyed Humour presently infects the Humours in the Parts adjacent, and corrupts the Vessels, so that by degrees the whole Member is infected, and by consent of the Nerves the Person is effected with Watching, Dilirium, frequent Faintings, Convulsions, Hiccoughs and cold Sweats, which are the forerunners of approaching Death.

In the Cure, if a Gangrene proceed from a In the Cure. flux of Humours Pain and Inflammation, which often attend Gun-shot Wounds, and great Contufion, a moderately cooling and slender Diet are to be observed, to allay the Heat and abate the Inflammation and likewise the Humours slowing to the Part are to be averted and discharged by Bleeding and Purging, and whatever else may contribute to make Revulsion. How that Intention is to be pursued, hath been elsewhere shewn

in the first part. Cordials are also requisite to

preserve the Natural heat.

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In respect of the Part it self affected with the scarificatiGangrene, as the Gangreen is deep or superficient cial it is to be scarifyed accordingly till it comes requisite. to the quick parts and the part bleeds, in doing of which, if any Vessel be cut which makes a considerable flux of Blood, it is to be stopped with an Actual Cautery, since by the crouding in of Dossils, the parts are compressed and the humours choaked up, by which the Mortification will be increased; whereas by the Actual Cautery,

the Blood is not only stopped, but the Putrifyed

parts

parts confemed, and the Natural heat rouzed up. Again if in Scarifying, a Nerve or Tendon be wounded, or be burnt by the Actual Cautery. it will increase the Gangrene; or if sharp Me. dicines be applyed upon Scarification. To remedy which they are to be divided, and then the part will be easy, and no accidents attend their being cut.

When the Mortification is scarifyed, of dreffing cleanfed of the clotted Blood with a Lixivium or aMortifica Tinet. of Myr. the Scarifications are to be filled

up with pracipitate, or with Doffils dipped in ol. caryophil. or ol. Terebinth. very hot, or Agyptiacum may be used with Spirit of Wine, Sal. Armoni. ac. or Nitri, fomenting the Part with a Decodi. on of Summit. Absinth. Centaur. min. Card. Benediet. foord. Vincetox. Rad. Aristolochia. rotund. Gentian. fpr. Vin. &c. in a Lixivium. Cataplasms are likewise proper ex farin. hord. fabar. Lupin. Methridat. &c. in Lixivio. cost. addend. exymel. &c. with a Defensative to prevent the Afflux of When the Ulcer begins to warm, and the Gleet stops, these dressings are to be discontinued, and the part dreffed with digestives warm as Basil cum ol. Tereb. after Digestion deterge with Mund. ex Apio. or Paracelsus, and then incarn and cicatrize.

And here it is to be noted, that by continuing in dreffing sharp Medicines, too long, the temper of the Morificati- Part may be so altered, that by retrieving the Patient from one Mortification, another kind of one may be induced, by too much inflaming and heating the Part; therefore the Nature of the Mortification is to be confidered, and Medicines applyed accordingly, to preserve the Natural temper of the part in a due Medium; neither too much depressing or exalting the Natural heat; for as Medicines contribute to the removing

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removing of a Mortification, by restoring that Natural heat that is depressed; or by depressing and checking Corrosive humours too much exalted; so the Nature of the Mortification, and its Causes are to be duly considered, and whether it depends upon the Natural serment depressed, or whether ill disposed and depraved Humours too much exalted, occasions the Corrosive Qualities.

Of Amputation.

If a Mortification hath seized a Part, and all when Am-External Applications prove inessectual, putation is the Actual Cautery is to be made use of, which requisite. will consume the Corrosive depraved Humours, and corroborate the parts, by communicating warmth to those that are languishing, and so will prevent the Progress of the Mortification, by which means the Gangrened sloughs will be the more easily disposed to separate; but if notwithstanding the Part does not digest, but Inslame and Gangrene, the best way will be to proceed to Amputation, before the Spirits are too much exhausted, and whilst the Patient is free from Dilirium and other ill Symptoms.

But since Amputation is necessary in other Ca- In what sees as well as Mortifications, it will not be amiss cases to consider and distinguish when it is necessary and when not. If then either by Splinters or great Shot, there happens to be a considerable loss of Substance, and the principal Muscles be torn off, and the Bone shivered in peices; or if a small Shot happen to Wound the Joynt of the Elbow, Knee or Ankle, and the Bones are broke or the Bullet cannot be extracted; Amputation is necessary. If the Arm be shattered, Amputation is to be made above the shattered

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Part,

Of a Gangrene and Sphacelus. Part. III. 304

> Part, but if the Ankle be Wounded, the Leg is to be cut off three or four fingers breadth below the Knee, a long stump being useless and trouble. if the Hand or Foot be Wounded, as much as you can of both are to be faved.

ing it.

When Amputation is to be made, the Patiof perform ent is to be placed conveniently in a clear Light; and held firm and fleady. The Mem. ber which is to be cut off is to be held and supported by one, whilft another flanding behind the Patient is to draw up the Skin and Musculous Flesh, and a Ligature being made two or three fingers breadth above the place where the Amoutation is to be made, by which the Vef. fels are secured from Bleeding and the part benummed, and the flesh held steady; as also another Ligature is to be made at a Convenient Distance above that, with a Compress upon the the Vessels, for the better preventing the Effusion of Blood when the flesh is divided; this being done and the Musculous flesh hawled up, the Surgeon with a Crooked knife, by a turn of his hand, is to divide the flesh quite round to the Bone, and then scrape the Periosteum off the Bone with the back of it, which would otherwise be apt to choak the Teeth of the Saw: this done the Bone is to be divided by the Saw, as close to the flesh as possible; but where there is two Bones the Flesh betwixt them is likewise first to be divided by a Catling, or other convenient Instrument.

The stump being thus imported, the Button, dlong the Vessels are to be stopped either by a Button, dlong or Agglutinatives. But id by to be flopp'd Cautery, Deligation, or Agglutinatives. Escharoticks are not applyed without great Inconveniency; fince they are not only apt to spread and be painful to the newly divided Ner-

> ves and Tendons, but keep the Flesh from rising about

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he ends of the Vessels. If the Vessels are to be topped by Deligation, a clear Light is requied to take hold of the Vessel by the Arterial orceps, and the Member is to be stretched out. hat the vessels may thrust out after Amputation; he Arterial Forceps being then ready Armed ith a Ligature, you are to take hold of the essels and then bring the Ligature over the nd of the Forceps and make Deligation. Or he Blood may be stopped by Actual Cautery. The manner The Blood being stopped, the Ligature is to of using eloofed, and Musculous Flesh and Skin brought AdvalCauown towards the end of the Stump, and as near 1erg. possible over the end of it; then with a strong axed Thred and Needle, take four stitches opofite to each other from fide to fide, about half Inch from the Edges of the Skin, lest they ould tear out; and with a Moderate Aftrictin retain the Skin brought over the Edges of e Stump. And apply Pledgits armed with

lv. iridis, suc. cepar. cum melle, to the Cauterid Vessels; where it is to be noted, that at the

metime the Cautery is a selection of the Extremities of the Extremities of the Vessels will by that cross slink. Re Natural Heat thereby preserved; whereas then no cross stitch is taken, the Stump is broad dlong in cure, and the Spirits likewise exhauat ad by the Great Quantity of Matter dischar-

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306 Of Gunshot-Wounds in the Thorax. Part. III.

How the When the Cross Stitch is taken, if no Actual Blood is to Cautery be applyed, Buttons of Tow armed with the f with Aftrin. a Restrictive, and dipped in pulv. Galen. may ten,

be applyed to the Mouths of the Vessels, sprinkling the Stump thick with the following powder, and l. B. bol. Armen. farin. Volat. pic. Naval. ana 3iii. er is aloes, Thur. Mastich. Sang. Dracon. ana 31. gyps. 31. Is. pil. Leporis. Corii. Raspat, ana. 3iii. M he Pa applying a Mixture of the same cum alb. ov. on Circuit a broad Pledgit over all, which had first been be pa dipped in oxycrate and dryed; over this another The pledgit is to be applyed broader than the former, and fniped at the Edges that it may lye that fmooth about the Part; over this an Ox Bladder it do ready cut and wet is to be placed, and croff; but Cloths over that; then apply the following Desirch fensative above the Stump, to prevent the Africant Clother of Lumpures B. Savin hand had Armen at 1111, of the content of the flux of Humours, & farin. hord. bol. Armen. an iii. ol. 3iii. Sang. Dracon. 3i. ss. flor. Ros. balust. N. C. It. sol. press. pulv. ana. 3vi. acet. 3x. alb. ov. No. vii b. i. C ol. Ros. myrt. ana 3i. cera. q. s. pulv. coq. in act ve. cetera addend. ut stat Cerot. this being applye fund. with a double headed Rowler, begin upon the digest Stump, and rowl up to the next Joynt; an rested then again about the Member, to retain an inct. keep the dreffings fast.

Reep the drellings talt.

The use of But instead of the Buttons above mentione found for ebimb. Buttons dipped in of Terebimb, hot and apply ed to the extremities of the Vessels are more estatrized found, and a large Pledgit dipped in the same up with in the Stump instead of the Astringent Powder ow a which will not only stop the Blood, but promo win, good digestion. These Applications being made another Pledgit may be applyed, spread windle the Restrictive above mentioned, and then to Ox Bladder and cross Cloth, with convenient of simulations and the placing of the Buttons upon the order to the placing of the Buttons upon the convenient of the placing of the Buttons upon the convenient

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Vessels, the Ligature is to be slacked a little, when he Rump is smoothed, and the Cross stitch taen, that the Blood spurting out may the better lifcover where the Buttons are to be applyed; nd likewise care is to be taken before the Memper is rowled up, to take off the Ligatures made pon the Part to prevent Bleeding; otherwise he Parts will soon Mortify and Gangrene, the firculation of the Blood being stopped, and he part deprived of a Supply of Spirits. er is rowled up, to take off the Ligatures made

The Part being thus taken Care of, and bound The Second

The Part being thus taken Care of, and bound dreffing p, it is not to be opened till the Third Day, when and that fresh Flux of Blood should happen, which, how it does, the Actual Cautery is to be made use it does, the Actual Cautery is to be made use it being cut, the Stump is to be dressed with gestives, as B. Terebinth in decost. horder, lot. iii. ol. Lumbricor. Zi. ss. Gum. Elemi. in practil. solut. Zis. farin. hord. cribrat. Zii. Vitel. ou. iii. l. Croc. Ji. M. or some other proper digestive. The part digested may be deterged with significant and deterging, the Bone is to be

th digesting and deterging, the Bone is an essed with Pledgits pressed out of Spr. Vin. or an inst. Myrrh. to promote the Exsoliation of the and the thrusting out of a Callus. The

lound digested and deterged, whilst the Bone Exsoliating, the Part is to be incarned, and estained from the Edges, keeping the stellar own in the Middle, till the Bone is exsoliated, own a Bone is exsoliated we have elsewhere with, in the Chapter of an Ulcer with Caries; and dhow a Callus is thrust out, and how new Flesh with made by the Apposition of the Parts of the second, we have explained not only in the Chapter of th

t ood, we have explained not only in the Chap. nie of simple Ulcers, but also the in Third part

at the General Intention in the Care of n tounds.

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CHAP. X 2

GHAP.

Of Fistula.

Descripti-



Fistula is a Sinuous Ulcer, whose Cavity hath a Callus, continued from the Lips of the Wound through all the Sinuosities of the Ulcer.

The Caufes.

These Ulcers grow Callous when by a Gunshot Wound, the Ulcer is kep long open to wait for the Exfoliation of a Bone the Cause of it is a Gross Phlegm discharged into the Cavity of the Ulcer, which by drying Med cines, and an Evaporation of the thinnest Part hardens into a Callus.

Difference.

Thefe Fistulæ differ either according to the difference of the Parts affected; or their particular lar fize, figure and number of Sinus's.

Diagnosticks.

They may be known by their Appearance, an by touching the Parts, as also by searching wit a Probe, by which if the Part be Pained, an Blood follows it, then the Callus is not confirm' but if it be insensible, and does not bleed, the Fistula is confirmed, and they discharge a this as are Serous fætid matter, the Groffer Serum not b ing able to discharge it felf through the Call led abo fity.

The Prognofficks.

All Fistula's are difficult to Cure; but il medul. worse as they are of Continuance, especially the de Alth that discharge depraved Humours from the Vused in scera. If they happen amongst the Bones or grealso En Joynts they are difficult to Cure, those Parts by the Ranzing incapable of Dilatation, and not admitted listual to the line and th

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Incision: But in such Parts as may easily be laid open, or where the Callus may eafily be re-

moved, are more easily Cured.

In the Cure of these Fistula's, since they are The Cure. subject to Pain and Fluxion. The Influx of Humours is to be prevented by Bleeding and Purging, and internal Medicines as in the Cure of Schirrus Tumours; observing also a regular and convenient Diet.

The Intemperies and depraved Disposition of the Blood, being thus removed. The disease it felf is next to be regarded, and the Fistula to be cured by Manual Operation or Use of Medi-

cines.

If the Fistula be directly downwards towards the Bone, and without Pain or Matter, it will in time grow up; but if it be otherwise, if it may be done without dilating it, it must be laid open the whole Length, and the Callus being feparated, the Cure is the same as of a Common UIcer.

But if the Orifice of the Fistula be so small, that it cannot be laid open; in order to dilate it, Tents made of prepared Sponge, Gentian or Ariftolochia Roots will be necessary. And that the Part may more easily dilate, it will be conve-nient Externally to make use of such Medicines, as are Emollient and Discutient, to soften the indurated Part, and to discuss the Humours setled about it. As Rad. althee. lil. enula. Campan. sgil. Solomon. Cucum. agrest. sem. lini. fanugreci the medul. offium, exung. porc. human, anseris, Unquent. de Althaa, Gum. Ammon, Galban, which may be used in the form of Fomentations or Cataplasms; also Emp. de Mucilaginibus, Diachyl. cum Gum.or de Ranis cum Mercurio, may be serviceable. The sistula thus disposed to dilate, may be laid open, and the Callus removed and cured, as a comnon Ulcer.

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Fut if it be reasonable to propose the Cure by of Carbere-Medicines; when dilated, the Callus may be confumed by Cathereticks, as Lap. Cauft. Vigonis, troch. de Minio or Arsenicum, or R cera, Rezin. ana 3i. Sublimet. 3ii. differing the proportions as the case may require it Stronger or Weaker; with which Sponge is to be prepared, as may be convenient, making the Tents bigger or less; or the following Injection may be used, stopping up the Orifice after the Injection with Wax, By Unquent. Agiptiac. 3 s. sublimet. 36s. Arsenic. 3i. Lixiv. Sapon. 3i. ag Rosar. 3ii ag plantag. 3v. cog. ad tertie partis consump. a little of which is to be injected two or three times a day. But when these Corroding Medicines are made use of, care must be taken, lest they offend any Parts underneath; and likewise, whether the Callus be extended the whole Length of the Sinus; otherwise the Parts where the Callus is not formed, will be consumed before the Caloss ty is removed.

If by the Use of these sharp Medicines, Pain and in Infinmati-flammation be occasioned, the Pain is to be relieved o. tow ic- by Lenient Emollient and AnodyneFomentations leived & .. as fol. Malv. Bismalv. hyo ciam. &c. and the Part

dreffed with Basilicon cum ol. Lil Ung. de Althee &c. applying a Defensative to prevent the Influ of Humours. The Inflammation abated and the flough separated, the Ulcer may be deterged with the following. B. Terebinth. in aq. vita lot Biii. Suc. Apii Cynogloss. ana 3vi. mel. Rosar. 31 fs. cog. ad fuc. Consumpt. deinde add. rad. Aristoloch round pulv. 3vi. farin. Lupin. 3 ss. M Th Ulcer sufficiently deterged, by an Addition of Myrrh. Thur, aloes, Sarcocol. &c. the forementi oned Detergent will incarn; and the Ulcer incarned may be cicatrized with Unquent. alb. Camph Desicativ. rubr. &c.

If the Bone be Carious, it is either to be removed If the Bone by Actual Cautery or Rugining, as it is deep or be Carious superficial; and the Bone to be dressed with such be done. Medicines as promote exsoliation; but if the Bone be covered by a Nerve, Tendou or Artery, so that it cannot be relieved by Actual Cautery, nor the Application of proper Medicines, then it is to be eased by proper injections or Unquents to palliate the Symptoms, and the Instux of Humours is to be prevented by Bleeding, Purging, and Internal Alteratives, and a due Regimen in Diet.

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SYSTEM

OF

Rational Chyrurgery.

PART. IV.

CHAP. I.

Of Fractures.

Definition.



Fracture is a Solution of Continuity in a Bone suddenly made, by the Violence of some External Accident, as Contusion or Fluxure. By Contusion a Bone is broke, when by a Blow with a Blunt

instrument, or the force of some weight the parts of a Bone loose their Continuity, in which Cases

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the Flesh about the Bone is bruised as well as the bone it self. When a bone is broke by Flexure, the Flesh is seldom contused, except by the

edge of the Fractured bone internally.

Fractures differ from one another, either ac Differences. cording to their Figure, being either right according to the length of the Bone, or Transverse, or obliquely. Secondly, they differ according to their Magnitude, being large or small. Thirdly, according to the Difference of the Bones fractured, whether it be the Bone of the Leg, Thigh, Arm, &c. Fourthly, as they are simple or compound.

The Causes of Fracture is external Violence made by Accidents, as a Blow, Fall, Pressure,

6c.

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A Fracture commonly is very evident, or may the Diagbe perceived: First, by crackling of the separated noffices. Bones when we handle them. Secondly, by the Impotency of the Part, being disabled from performing it's Office. Thirdly, by the violent Pain nd Distortion of the Part, or a Fracture may be found out by comparing one Part with another, which is not damnifyed, the Fractured Part eing shortest. In Compound Fractures, where a Wound is complicated with the Fractures, either he Bones thrust themselves out through the Wound, or the Fracture may be perceived by earching with a Probe, or feeling with ones inger, but sometimes a Bone is fractured, withones, the Part appearing crooked, which is i- Eured by Extension without much Pain or Troue. le. If a Fracture be Longitudinal, The Part e, will appear thicker than usual, and painful and nequal. nt

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The Prognosticks.

Fractures are more dangerous in great bones than in small ones, and where two bones are Fractured than if only one, as in the Leg on Arm, where there are two bones. Fractures near the Joynts are more Painful and Dangerous than if they happen near the middle of the bone, and more difficult to Cure. If they be broke in shivers, and the shivers prick the Nervous Parts they occasion ill Accidents. Compound Fractures are more dangerous than simple Fracures.

Intentions of Cure.

In the Cure of Fractures, The First Intention, is to Joyn the Fractured Parts together. The Second is, to keep them so joyned. The Third to preserve the Tone of the Part. The Fourth to generate Callus. The Fifth, to correct il Accidents.

The First

In order to the first Intention, Extension and Intention. Coaptation are necessary. For since in Fracture the Bones are distorted, and the Rectitude of the Part loft, extension is requisite to bring the Parts right again, and that the Parts that flick out, and lye unequal, or ride over one another, may be reduced to their Natural Polition for it often happens that for want of due Extenfion to reduce the bones to their proper places the Limbs are shorter than they would be, if the bones were rightly reduced; besides when they are not reduced as they ought to be, they are apt to fly out of their places, and occasion il Symptoms.

How Exrensions are to be made.

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As for the degree of Extension it ought to be proportionable to the Nature of the Fracture, and the greatness of the Part to be extended, that the ends of the Fractured bones may not rub and fret against one another, whilst they are reducing, lest any of the Fractured bones being broke off, should fall between the main bones and hinder

their

their Union, or falling externally and pricking the Membranes, should occasion violent Pain; besides if the Extension be not sufficient it will be impossible to reduce the Bones into their proper places, which will be apt to lye one over another. On the contrary, if the Extension be too violent it will be apt to occasion ill Symptoms, as Convulfions and Inflammation. But if the bones be Large as in the Thigh, Legs and Arms, stronger Extension is required, than in smaller. If the Bones of the Arm be both broke, the Radius requires the strongest Extension, having no Muscles to draw it upwards. In making Extension care is to be taken, to keep the Part in such a posture, that the fibres of the Muscles may be extended according to their Rectitude. In Children and young bodies the parts more eafily give way to extension than in old ones, where the parts are more firm and dry.

When a bone is Fractured, the sooner it is re-How ill duced the better, for after the second day, Pain Symptoms and Inflammation will occasion a great Defluxion prevented, of Humours, which may produce a Mortification, or at least, make the Extension difficult and dangerous; therefore if it is not done before there is much Tumour and Inflammation, the Inflammation and Tumour are first to be restrained, by proper Lenients and Repellents, and Expulsive Bandage; by which means the Inflammation abating, which is about the Ninth or Seventh day, the Extension will be more easily made, and the Coaptation and Reduction performed with less

difficulty.

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The method The manner of making Extension is threefold. of making First, by Hand which is the Gentlest way of Extension. making Extension; in performing of which the

Chirurgeon's hand is to be placed near the Fracture, lest the found Part be hurt by the Compression, The Second degree of Extension is, by Funes & Ha. benæ, a convenient Bandage being made, by which the Part is to be extended. The Third way of Extension is by proper Engins, which are of use in Parts, where great Extension is to be made. When sufficient Extension is made, care must be taken to loofen and flacken the Extension gradually, whilst the Operator endeavours gently to press the Extremities of the bones into their proper places, fo that they may lye fmooth and equal ; and if there be any Splinter which connot be placed smooth and even, it must be moved and taken out, by making Incision. of a good and perfect Coaptation are, first, the likeness and equality of the Fractured Part with the found. Secondly, the smoothness and even position of the parts when we handle them, there appearing no Inequality. Thirdly, they Ease the Patient finds, and Abatement of Pain. But when a Part is Fractured, before Extension we are to observe, whether the Part be Fractured in more parts than one, and make Extension accordingly.

The Second Intention

The Second intention is to be performed by by Bandage, Bandage, which is to be fo made, that it may not only preserve the Bones joyned together in their proper places, but may also defend the Part from the Influx of Humours. This is done by three Rowlers made of Cloth, which may lye foft and easy upon the part, yet strong enough to keep the part firm, and bear the Stress of

Rowling without breaking.

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With the First Rowler you are to take three the method turns about the Fracture, and then Rowl upwards of using the and make the Rowler fast. By this the Fracture first Rowler will be kept steady, and the part defended from Fluxion and consequently Instammation.

The Second Rowler being as long again as the How the former, is to begin upon the Fracture, where second having taken a turn or two, the opposite way Rowler is to which the first Rowler was turned, it is to be to be ap-Rowled downwards, three or four turns, and plyed. then returned upwards again, and passing over the Fracture is to terminate, where the first Row-This Rowler is passed the opposite ler ended. way to the first, that if the Muscles were distorted with that, they might be restored to their proper places again. Over these two Rowlers the Splenia or Compresses are placed, being made of Linnen Cloth four times doubled, of a convenient Length to reach over the Fracture, and fo narrow that five or fix may be placed about the Fracture, a fingers breadth from one another.

The third Rowler is to be upon these Com-ner of using presses, which consisting of two Heads: a turn the Third is to be taken upon the Fracture and one part Rowler. of it rowled downwards, and the other upwards. Where it is to be observed, that in passing these Rowlers, they are to be bound streighter upon the Fracture than any other part, to prevent Fluxion, and to prevent the Bones from slipping out of their places. Yet care is to be taken not to bind so tort, as to hinder and obstruct the Circulation of the Humours. If the Day after Rowling a small and lax Tumour appear below the Bandage, it is a good Sign, that it is neither too hard nor too slack, but if there be no Tumour it shews that the Bandage is too slack, and

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if there be a great and hard Tumour, that shews that the Bandage is too hard, and obstructs the Reslux and free Circulation of the Humours.

Fracture is to be opened till the Seventh Day, when the to be open-Bandage will begin to flacken of its own accord, the Fluxion and Inflammation being then over, and the Parts relaxed; and then if there be any Error in the Position of the Part or otherwise, it is to be mended, and since by so long a Retension of the Humours discharged by Transpiration, they are apt to grow sharp and cause a violent Itching, which often produces a painful excoriation, and redness with Inflammation, it will be requisite to bath the Part affected with warm Water, to give a breathing to the Parts, and ease them by a Gentle Perspiration.

The Part being thus opened, and relieved (which is not to be done fooner lest the Bandage slackened, the Part should give way to the Insux of Humours,) and the Danger of Fluxion and Inslammation over, the Part is to be bound up again, applying Ferulæ or Splints instead of the Splenia or Compresses. Yet if the Fracture happen near the Joynts, or where Splints cannot be conveniently applyed, Compresses wet in the Whites of Eggs may be continued the whole Cure. But where Splints may be safely used, they keep the part both steady and straight, and may be made either of Tin, Scabboard, or Wood,

sewed up in Linnen Cloth.

How the The Third Intension in the Cure of a Fra-Third In Aure is to preserve the Tone of the Part; and tention is since Nature cannot so well perform her Part, performed. whilst the Body abounds with ill disposed Humours, which may affect the Part, Bleeding is convenient to empty the Vessels, and diminish the Quantity of any percent Humour, and the Body Pat tha mo Ad Re ball

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Body is also to be kept open by Clysters, the Patient observing a convenient and slender Diet. that the Body may not be filled with gross Humours, whilst confined and debarred from the Advantage of Exercise. Externally Astringent Repellents will be convenient, as ol. Rof. Myrt. balust. ros. rubr. Sang. Dracon. bol. Armen. made into the form of a Liniment with Red Wine. which may be spread upon Cloth and applyed to the Part or Emplast. Diapalm. with some of these powders.and a sufficient Quantity of Oyl of Myrtles and Vinegar may be employed in the Form of an Emplaster, or Cyl of Myrtles and Roses with Red Wine and the Whites of Eggs; these Astringents not only prevent Fluxion, and strengthen the Tone of the Parts by contracting its fibres, but, along with Bandage, help to prevent or expel any Humours that might fettle in the Fractured part about the Extremities of the Bones.

But besides External Applications, a due Adue Post-Position of the Part is also necessary to preserve tion of the the temper of the Part. And first the Part ought observed to lye soft, lest any hard thing pressing upon the bruised parts should occasion Pain and Inslammation; the Posture sikewise ought to be equal and raised up, lest the Part should be distorted, or the Humours should happen to fall upon the Part. If the Leg be fractured it ought to be placed so, that the Hollow of the Ham and Heel be filled up, that every part may bear its own weight without pressing upon any particular Place.

The Fourth Intention is to promote the Ge-Intention. neration of a Callus; which is to be endeavoured as foon as, by the use of Astringent Repellents the Part is strengthned and the danger of Inflammation and Fluxion is over, which is about Medicines which are proper the Seventh Day. to promote the Generation of a Callus, are such as by their warm and Emplastick Virtue and Qualities, preserve the Natural Heat, and so asfift Nature in her Work; in tender Bodies where Nature is ftrong and able to exert her felf, Medicines moderately warming are fufficient, as the Whites of Eggs with farin. Volatilis, but in stronger Bodies pulv. Myrrh. aloes. acacia. gum. tragacanth. Thus. Labdanum, &c. Emp. Stiff. Paracels. Diapalm. Oxycroc. either feparate or mixed, or Catagmaticum. As for the Nature and Manner, how a Callus is formed, and how it is affifted by External Applications, I have already explained in the fecond Part, in the Chapter of Ulcers with a Caries, and therefore shall not re. peat it here, nor shall I here spend time, or enlarge this Book with disputes or arguments to confute the Opinions of others, being content to propose that which I think most reasonable and consonant to Nature, the Body being considered, as a Vascular Engin, and the Humours being liable to be affected by the evident Qualities of a Callus and why Medicines are affiftant to Na-

How aCal. Medicines. To what therefore I have already lus is Ge-said before of the Nature of the Generation of ture, I shall only add, that in Fractures; the Medicines externally applyed have not fo immediate an Influence upon the Bones as in a Caries, where there is only the Thickness of the Caries to interpose; and as in that Case, Medi-

> cines assist the Generation of a Callus, their warm Effuvia exciting the Natural Heat, so here they

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encourage the Natural Heat in the Bones not only by their Subtle Effluvia penetrating through the pores of the part, but also by warming the parts about the Bones, which confequently excites the Natural Heat in them; besides as their gummy and rezinous parts, not only warm the external parts, but by clogging and obstructing the exit of the ferum by Transpiration, as all viscous Bodies do, they seem to add an accidental Warmth, by retaining the warm Effluvia of the Body, which encreasing the Natural Heat of the Part, feems to affift the Native Heat in thrusting out a Callus, as I have observed, in the Chapter of an Ulcer with a Caries.

What I shall here observe further is, that as a Gentle Heat is sufficient in tender Bodies, where the Bones are foft, to encourage a Callus, as in Children, foit is worth Noting, how in grown Bodies the softer the Bone, the sooner it thrusts out a Callus; as in fmall Bones fooner than in great ones; and as a Callus is formed after the same manner as flesh which supplys the loss of Substance in a Wound or Ulcer, so in sleshy Parts it rifes faster than in Bones, if no superfluous Moisture of a heterogenous Quality disturbs

and interrupts Nature in her Work.

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Now as too much Moisture is prejudicial How the a incarning, and also in the Generation of a Cal-Generation us in a Caries, fo in forming a Callus in Fra- of a Callus fures, if the Blood is disturbed with too much is bindered. of Superfluous Serum, it delays the Confirmation of a Callus; for which reason Internals are gie en, which incrassate and thicken the Blood and erum, that the Apposition of firmer Parts which ome nearer to the Confidence of a Solid Body 10 may the more easily assume a Solid Form, thus m Offeocolla 3i. in ag. Rad. Symphyt. is esteemed Sphecifick in promoting and confirming a Callus

Callus, it rendring the Serum of the Blood, as well as the Blood it felf of a better Confiftence; fo that the Serum flows not fo plentifully into the Part to difturb Nature, and overwhelm the Callus with too much moisture; and the Blood it self fooner forms a Callus, it being disposed to a more ready Cohesion and Apposition of Parts.

Whilst a Callus is forming, the Rowling ought not to be so streight as before, the Parts requi-

ring a free Circulation.

Whether a Fracture be Transverse or Longitudinal, the same method of Cure is to be made use of, only a stricter Bandage is to be observed in the Latter, to keep the Bones close together, which otherwise will be apt to rise and make the the Parts Gibbous.

The Fifth Intention

The Fifth Intention is to correct those Accidents, which may prolong the Cure of Fractures. to refift ill As Pain, Inflammation, Apostemation, Gangrene, Accidents. Excoriation, a Luxuriant Callus, or too little of Weakness of the Part and a depraved figure. If Pain affect the Part, Lenients; and if it be attended with Inflammation, Lenient Repellents are proper to refift theinflux of the Humours, that occasion those Symptoms; if there appear any danger of a Gangrene, the Bandage is to be flackened and the Part fomented with a Lixivium with Absinth. scord. Centaur. &c. applying a Catapfalm proper in fuch a Cafe. If the Fracture be attended with Itching, bath the Part with warm water, and if excoriated, Unquent alb. camph. or Nutritum and populeon may be vied which will allay the Heat of the Humours, and Cicatrize.

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If the Callus be too great, it will be perceived to be so by being protuberant, and painful, when pressed upon, the Part being likewise rendered unapt for Motion. When this happens, a spare diet is to be ordered, that the Luxuriant Callus may not be supplyed with Supersuous Moisture, and the Influx of it is to be resisted by stricter Bandage, and that which is already lodged in the Callus is to be consumed and dispersed with Discutients in the form of Fomentations, as also Discutient Emplaisters are to be applyed as Emplaist. de Cicuta, de Ranis cum Mercurio, &c.

But if the Callus be less than it ought to be the Bone is weak, and the Callus not perceivable; in which case a plentiful Diet consisting of such things as afford good Nourishment is necessary; and the Bandage is to be flackened; the Part is also to be bathed with warm water till the skin is tumifyed and begins to be red, that the Veffels being extended may bring Humours more plentifully to the Part. If the Part be emaciated, by bathing too much with warm water, and too first Bandage, then bath with fresh broths, and use such Embrocations as may warm the Part, and by clogging the Pores of the Skin, retain the natural heat and moisture which would otherwise transpire through the pores of the skin.

If the Part happens to be of a depraved figure, the Bone being not well set, if the Callus be not well confirmed, it must be broke and set again, to remedy that deformity, to which end the Callus is first to be softened with Emoslient Decoctions, Liniments and Emplaisters, but if that will not do, it is better to be content with such an Accident, than hazard the breaking of it, when confirmed by it's long Continuance.

Thus

Thus much being faid of the Method of Curing Fractures, and relieving their Accidents in General, I shall only add briefly the Method of reducing particular Fractures; the Method of Cure, appearing from what hath been delivered above.

If the Bone of the Nose be broke, the Part

is to be raised with a Spatula; then a hollow

The merbad of reducing raifed is to be depressed, and the depressed Part Particular Fradutes and the time of sing.

Pipe or Tent is to be put up the Nostrils, and a Fracture Plaister applyed externally: A Callus their Uni- will unite it in about twelve days. If the Jaw Bone be broke, the head is to be drawn back. wards and the Bone forwards, and the Fracture reduced, placing the fingers both on the infide and outfide. This Bone unites in about twenty days. If the Clavicle be broke, the Arm is to be drawn backwards and the head forwards whilst it is reduced. It unites in twenty four days. If the Scapula be broke near the Joynt it is for the most Part Incurable. If broke near the Acromion, the Arm is to be pulled downwards whilst it is reduced. If it be broke into feveral peices which are not likely to unite, Incision is to be made, and the loose peices are to be taken out, leaving the rest to Nature: It is healed in Forty Days. If the Sternum be broke lay the Patient on his back, pressing both shoulders backwards; then press the Ribs backwards and forwards till the Bone be reduced : It unites in thirty days. A Simple Fracture of the Ribs may be Cured in twenty days, by the Application of a convenient Plaister for Fractures: If they bend inward, let the Patient hold his Breath whilst they are reducing. A Simple Fracture of the Joynts of the back-bone, may be Cured in twenty days; but if the Spinal Marrow be hurt, it is Mortal. The Hip Bone will unite in twen-

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ty four days. If the Os Humeri be broke, first bring the Elbow downwards, and then extend and reduce it, and continue it in that Posture till Cured. This Bone will unite in forty days; and so will the Thigh Bone. The Bones of the Cubit and Leg unite in thirty days. If the Patella be broke length-ways, it will unite in twenty days.

CHAP. II.

Of Compound Fractures.



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Compound Fracture is a folution Definitions of Continuity in a Bone made by external violence, complicated with a Wound.

In a Fracture with a Wound, if How Comneither the Bone be bare, nor gures withstart out through the Skin, the ends of the Fra-out Commdured Bones are to be brought together, as in a fion are to simple Fracture: and the Lips of the Wound are be weated.

simple Fracture; and the Lips of the Wound are be weated. to be brought together by Suture; if they are not too much contused. The Lips of the Wound thus brought together are to be retained so by proper dressings, which may not only ease the the Pain, but prevent the Influx of Humours, and dry up what hath already affected the Part; by which the Wound will be prevented from Apostemation, and the Bone from being souled. And this is to be done by proper Astringents, as proposed above in Simple Fractures, viz. by A-stringent powders mixed with the Whites of Eggs

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and red-Wine, which is to be spread upon Cloth and fo applyed. This being done the Part is to be bound up with proper Bandage. Bandage in these Cases is to be made of two or three short Cloths, foulded three or four times double to make them the stronger; and of such a Convenient Breadth as to cover both the Lips of the Wound and the Fractured Parts; and of fucha Convenient Length, as to reach once about the Part, and to stitch on the most convenient side. Under these, Compresses of Tow or Double Cloths, may be placed, to keep the Lips of the Wound down, and fill up the Inequalities, as well as promote the Expulsion of Matter. Sometimes the Fractures is fuch, that Splints are altogether necessary, and when they are, they are to be applyed so, that the Lips of the Wound may be kept even, and that they may not hinder the Difcharge of the Matter, lest being pressed back into the Wound, they should dilate it, and foul the Bones. But if the Bone be bare and thrult the Bones is it self out of the Wound, the Bone is first to be reduced to its Natural Position, and the Wound stitched and dressed as before directed; but if

When bruft out mbat is to be done.

the Bone be foul, when the two ends of the Bones are united and the Callus hardened and dryed, the Bone may be exfoliated, by a Mixture of Aminiac. and pulv. Myrh. dissolved in Spirit of Wine, applyed hot upon an armed Probe; and the Bone exfoliated, the Ulcer is to be cured by the Ordinary Intentions.

When the end of the Bone thrusts it self out, so that it cannot be reduced without violent force, the end of the Bone is to be sawed off, before the Part is affected with a Gangrene, and then the Lips of the Wound are to be brought together by Suture, and dressed with a Warm Digestive, as Basil, cum ol. Terebinth. and Emp. Diachalcit. ma-

laxed

laxed with ol. Rosar. over it, applying the following mixture over all to prevent Fluxion and Inflammation, Be fl. ros. rub. balust. Myrt. Bol. Armen. Sang Dracon. ana q. s. pulv et cum alb. ovor. ol. rosar. et aceto. M. ad consistent. mellis, this being fastened with Bandage, and Splenia over the Bandage, to steady the Part and keep it firm, Ferula are to be placed over the Splenia, and fastened on by convenient Ligatures, the Part is to be placed in a proper Posture upon a Pillow, for the better security, in a Wooden Case, to keep the Parts in a Constant steady Position.

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as 1aed But these Fractures attended with large Regard to Wounds, if near a Joynt, are subject to violent be bad to Pain; the Tendons and Musculous Flesh being the Accitorn and stretched by Extension, which frequently occasions ill Symptoms, as Fever and Mortification, in which Case the Patient is to be treated according to the Common Intentions in those Accidents; as the Fever is to checked by Bleeding, Clysters, Anodyne Draughts and Emulsions, &c. and the Mortification scarifyed and dressed, with Agypt. and Spr. Vin. regard being still had to the Wound and the Bones which are to be united.

But care is to be taken after Extension is made, A Caution, and the Bone reduced, if there be any lose Splinters of Bones, to take them out, lest by pricking the Periosteum, or other Parts, they cause Pain, or Apostemation. The Part being thus cleared, of what is extraneous, or likely to occasion ill Accidents, and dressed with Astringent Repellents, to prevent Inflammation and the Influx of Y A Humours

Humours, Bandage is to be made, so that you may come to dress the Wound, without disturbing the Fracture. Care is likewise to be taken, not to offend the Parts with the Splints, if occasion requires the use of them, till the Inflammation be over, and the Wound well digested. When this is done, the Bones stripped of the Periosteum are to be exsoliated and incarned, and the User Cicatrized by Epuloticks.

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SYSTEM

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Rational Chyrurgery, & e.

PART. V.

CHAP. I.

Of Luxations in General.



Luxation or Diflocation is the Definition. forcing of a Bone out of it's Natural place, so as to obstruct Motion.

The Causes are either External, Causes. proceeding from some External

force; or Internal, depending upon such an Afflux of Humours in and about the Joynts, as to render the Ligaments too soft and lax.

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The Nature of Artculation.

Before we can well understand the manner of Cure, it is requisite to know the Connection of the Bones one to another, and how many ways they may be diflocated, which will the better enable us to make use of the best Method in reducing of them. The Connection of the Bones is either by Symphysis or Articulation.

By Symphymy ways.

Symphysis is a Connection of Bones for firmness, fis bow ma- and is either without, or by the Interposition of, a Medium. Of those which are joyned without the Interpolition of another Substance, there are three forts. viz. Suture which is a Conjunction of the Bones in the Skull by being indented one Harmonia, which is a Conjunctiwith another. on of the Bones by Mutual Contact, without indenting, or the Interpolition of another Substance. Gomphosis, which is a Conjunction of the Bones, as of the Teeth in the Socket.

Of that fort of Symphysis which is made by the Interpolition of another Body, there are likewife three forts. viz. Syffarcosis, when two Bones are joyned together by the Intervention of Flesh. Synneurofis, when the Bones are joyned by Ligament as the Offa pubis; or Synchondrofis, when they are joyned together by Griftles, as the

Sternum to the Ribs.

How many forts of Ar-

Articulation is a Connection of the Bones with aptness for Motion, and is either Apparent siculation, or Obscure. That Articulation which serves for Apparent Motion, is called Diarthrofis. That which serves for obscure Motion, is called Synarthrosis, of each of which there are three kinds. As,

En arthrofis,

Enarthrosis, where a round head is received by a Cavity; which if it be deep is called Cotylz; if shallow Glene, as the Cavity of the Os Coxa which receives the Protuberance of the Os Femoris; or the Cavity of the Scapula, which receives the Os Humeri.

Arthrodia, where the Cavity is very superficial, as between the head and the first Vertebræ of the Neck, which is Diarthrosis, and betwixt the

Carpus and Metacarpus in Synarthrofis.

Ginglymus, when the two Bones are mutually received into each others Cavity, as the Elbow, in Diarthrofis, and the Vertebræ of the back in Sy-

narthrofis.

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Luxations differ according to the Part affected, Differen. as whether it serves for obscure or apparent Mo-ces. tion; or according to the Degree, as whether it be wholly dislocated, or partly, by the relaxation and stretching of the Ligaments, or from the Scituation of the Part; whether upwards, downwards, forwards or backwards, &c. They differ also according to the Accidents that attend them, as Inflammation, Wounds, &c.

The Signs of a Luxation, are the loss or imper-The Diagfect Motion of a Joynt, and a difference from the nosticks. found Part; as also a Cavity on one side, and a Protuberance on the other. The Part is also lon-

ger or shorter as the Part is distorted.

In Children and Moist Bodies, the Bones are The Progeafily reduced, but apter to slip out again; which nosticks. is otherwise in dry and grown Bodies, they being in them, hard to reduce and more easily retained. If of long continuance they are hard to reduce, as well as to retain them in the proper place. Those of the Vertebræ of the back, if occasioned by External Accidents, are commonly Mortal, the Spinal Marrow being hurt, by the violence of the Cause; but if made by the congestion

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sticn of Humours they are often cured. When a Bone is diflocated it presses upon the adjacent Parts, which as they are more or less sensible, the Pain and Accidents that attend them are violent or more remifs.

In the Cure there are four Intentions. viz. How many Intentions Extension, Reposition, Ligature and Position.

Extension ought to be gentle, yet so much The First. that the ends of the Bones may not rub upon one another whilst they are reducing.

The Second. When the Extension is made, the Luxated

Bone is to be reduced into its proper place the way it flipped out. If it lye on the right fide, it must be forced back to the left. If it be dislocated forwards, it must be pressed backwards. If a Bone hath been long diflocated, or the Contraction of the Muscles is great, the parts are to be relaxed before the Extension with Emollient Embrocations, as Unquent. de Althea. axung. porcin. ol. lil. and in Case of Inflammation, ol. Ros. myrt. mixed with Emollients, lest by violent Extension the Inflammation should be encreased, or by stretching the Parts too much, the Nerves be affected and cause a Paralysis.

The Third. The Bone being reduced is to be kept in its place by Ligature, having first applyed such Medicines as refift the Influx of Humours, and strengthen the Tone of the Parts, which are Asftringents, as bol. Armen. Sang. Dracon. farin. volat. fl. rofar. baluft. cum. alb. ovor. aceto. or Vin. rubr. or R. Thur. Mastich. bol. Armen. Sang. dracon. 31s. farin. volat. 31. cum aceto. M. If there be great Pain embrocate cum ol. Rof. Lumbricor. and apply Emplast. de Bol. or De minio, then a Compress being placed on that side it was dislocated, lest it should slip out again, the Part is to be bound up as Circumstances require, and retained in its proper place. The 1414

The Fourth Intention which is due Position The Fourth. of the Part, ought to be fuch, that the part may lye foft and easy, and a little raised, that the Humours may be less apt to fettle about the Part; yet the Part is not to be too much bent, lest the Muscles constantly contracted should grow shor-If the Shoulder be diflocated, the Elbow ought to be placed to the fide and the Hand upon the Breast. If no Accident happen, it is not to be opened till the Seventh Day, and then the loynt is to be moved to and fro, and dressed up again, with strengthning Medicines, avoiding greafy things which foften, and relax the Ligaments. If the Part Itch, for want of free Perspiration, to give a breathing to the parts, bath them with warm Water, or a Decoction of Summit. absinth. fl. ros. rubr. balust. bac. Myrt. Junip. &c. with Spr. Vini.

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If a diflocation be occasioned by a Congestion of Humours, which relax the Ligaments and Tendons, or are gathered in the Joynt, they are to be attenuated and discussed by Emollient Discutients, as B. rad. Althae. Zvi. rad. Cucum. asinin. Ziii. Sum. Majoran. M. ii. in Brodio ex pedibus vitulin. cost. et contusis add. pulv. sem. fenugraci et lini. ana Zi. ol. lil.axung.human.ana part aq.M. F. Cataplasma, or Emp. de Mucilagin. or Emp. de Ranis cum Mercurio, may be applyed. The Matter thus dispersed, the Bone is to be reduced, and Medicines applyed, as directed in the third In-

tention, with good Bandage.

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CHAP. II.

Of the Dislocation of the Lower Jaw.

Description of the Articulation.



He Lower Jaw hath two Processes on each side. One Acute, called Corona, to which the Tendon of the Temporal Muscle is fixed, and by which it is moved in the Hollow of the Cheek, having

no socket to move in. The other hath an obtule round Head, called Condylus; which is received by the first Sinus of the Os Temporum, in which it moves. It is kept close by the Temporal Muscle, and the Masseter which is fixed to the outward broad Angle on the other fide the Corona; and by the Pterygoides, which is fixed to the Infide of the Broad Part of the Jaw. These Muscles by their Tonick Stricture keep it in its Natural Scituation, but when Contracted hawl it up more closely. When they are violently contracted, and the Jaw pulled down before by the Muscles, that open the Mouth, they hawl it up out of it's Sinus, and cause a Dislocation, which sometimes happens in Gaping, or when they contract violently in gnawing any thing that is hard. Bone can only be diflocated, by fliding out of the fore-Part of the Sinus, into the Cavity of the Cheek, under the Os Jugale.

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he k, The Signs of it being diflocated, are, it's being signs of thrust forwards; so that the Teeth, start out be-Dissocation those of the upper Jaw, so that the Person on an neither chew, nor swallow, nor speak, nor shut his Mouth. The Temporal Muscle appears rigid before the Jaw is tumifyed; and if the Dislocation be on one side only, the Mouth is distorted as in a Spasmus.

The Reduction is difficult, if not done before Progthe Part is tumifyed; and dangerous, fince the nosticks.

Person can neither eat nor drink.

In reducing this Bone, the Person is to be sea- The manner ted firm, and his Head held steady; then a couple of reductiof Wedges are to be placed close between his on. great Teeth, as far as they can be thrust, your Thumbs being elose by them, and your Fingers externally under both Jaws, making a moderate extension,& at the same time raising the forePart of the law, and depressing the further part. the Teeth are too sharp to press your Thumbs upon them, a fould or two of Linnen may be put between. If the Diflocation be only on one fide, move to the opposite side, and proceed as before directed, making a quick moderate Ex-If the Bone be reduced, the Teeth will meet equally, and the Mouth open and shut, and the Speech will be recovered. To prevent a Second Diflocation apply a Defensative with Ban-And if Pain continue, embrocate the dage. Temporal Muscles with ol. Lumbricor. &c.

CHAP. III.

Of the Dislocation of the Cavicle.

The Defeription of the Articu lation.



He Clavicle or Collar Bone is crooked and of the Figure of an S. being thicker and almost three square at one end, which is fixed in a Cavity in the first Bone of the Sternum, and tyed by a

Itions Ligamentous Membrane. The other end whichis broad and flat is joyned to the Acromion, keeping the shoulder at a distance from the Sternum, and affifts those processes, that prevent the Shoulder Bone from flipping upwards.

How many cased.

It may be diflocated outwardly at the Sterways diffo- num, rifing up like a Lump from the Breast. At the Acromion, upward and forwards. It is commonly occasioned by a fall, pitching upon the Shoulder, and is discovered by its protuberance.

The Prognosticks.

The Clavicle is easily reduced but hard to retain in its Place when reduced, It's extremities being smooth, and the Cavities small which re-The Arm is disabled in some of ceives them. its motions, if it be not reduced.

The Clavicle is reduced, by drawing the Shoulof Reducti. der backwards, and pressing the end into its Cavity either at the Acromion or Sternum. When reduced proper Emplasters and Compresfes are to be applyed, and the part is to be kept in its place by Bandage, which may be affifted by the Use of Splinters. The Bandage ought to

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wife | which s alfo be made with a double headed Rowler, which is to pass over the Shoulder, and under the Arm, aking a sufficient Number of Turns, to retain both the Part and the Dressing. The Patients Arm is to be kept up with a Napkin, with his Hand up to his Breast. If the Part continue in it's place, it is not to be opened till well, which will require time, before a Callus cements it; the Ligament being broke, which held it in it's Natural Place; which Callus is formed of that Mucilaginous Humour, which nourished the Part.

CHAP. IV.

Of the Luxation of the Shoulder.

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He Shoulder-Bone is inferted by a The Deround Head, into the Shallow scripsion of Cavity of the Scapula, that it might the Articueasily move any way, as occasion lationrequired. It is kept in it's place Upwards, by the Acromion and

the Process Anchriformis, and the broad end of the Clavicle, which being extended, over the atter to the Edge of the former, makes the deences stronger; being also tyed by a strong Lisament, which runs transversly from the Processian Anchriformis to the Acromion. It is likewise bound with a strong Circular Ligament, which involves the whole head of the Os Humeris salso by a Tendon from one of the Heads of

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the

the Biceps, which paffing through a Notch in the Head of the Humerus, is inserted into the Head of the Scapula; It is also. strengthened by the Deltoides, which lyes over all, and binds them so fast, that the Bone will sooner break than these give way to a direct pressure Internally and downwards it is guarded, not only by it's Posture, but the Muscles that retain it, as the Tendon of the Biceps Externus Subscapularis and Rotundus Minor. When diflocated it passes into the Axilla betwin the Tendons of the Subscapularis and Biceps Externus. It is diflocated with a great deal of difficulty any other way.

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The Caufe. The Os Humeri is dislocated, either by some external violence, or internally by a Flux of Humours, which relaxes the Muscles and Tendons and makes it apt to slide down into the Ar-

illa.

If it fall into the Axilla, a Cavity appears up on the Head of the Scapula, and the Head of the but on the Head of the Scapula, and the Head of the but Os Humeri may be felt round and hard in the Ax in a illa; the Persons elbow hangs from his side, and der cannot be brought as close as the sound one with ced out much Pain; he cannot bring his hand to his poin Mouth, nor stretch it out against any thing. I y to the Head of the Bone be pressed inwards, a Caupw vity will appear behind, and a Protuberance for wards; the Elbow hangs backwards, and can bring not be moved forwards without much uneasiness the S of the Dislocation proceeded from an inward albomatic than the Arm will be emaciated, and the Man, reason discovered by the Person. reason discovered by the Person.

Signs.

Chap. IV. Of the Luxation of the Shoulder.

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When it is occasioned by an External Caufe, The Progit is easily reduced in Children and Soft Bodies, nofticks. but in grown People and tough Constitutions, it is hard and difficult, and fometimes they become Paralytick and Emaciate; but if taken care of in due time, they recover. If Part of the Capfula be broke, the reduction is very difficult: Luxations made by Fluxion are easily reduced, but not easily retained in their Place.

The Os Humeri, is either reduced by Hand, the man-Bandage, or the force of Instruments. He that ner of Rewould reduce it by Hand, must reverse the Mo-dustion by tions of Nature; and fince in Dislocation it first Hand. passed forwards, till it came past the edges of the Capfula then fell down below it, and was then pul-Ax. led back by the Muscles; in Reduction it must be first brought forwards, then upwards, and then thrust in : This Method will do in Children; but in grown Bodies, the Patient is to be placed Ax. in a low feat, and his fingers being clapped under his Arm-pit, his Knee or Thigh is to be plaith ced on the outside of his Elbow, & his Head to the boint of his shoulder. By his singers bent strongy together, the Bone will be pulled forward and pward, by his Thigh or Knee, preffing his Elbow to his side, they will also both raise it, and bring it forwards; and his Head will press down the Sapula that it will not rife with the Bone: the war Elbow being thus pressed by the Person, or another Man, and brought back to the Spine, the Patiints other Hand must be placed under the Axilla o raise the Head of the Humerus forwards and pwards, the Surgeon in the mean time preffing lown the Scapula to receive the Bone. The Head of the Os Humeri being distorted forwards under Part of the Pectoral Muscle, his Elbow must be rawn backwards, and held close to the Spine; whillt

340 Of the Luxation of the Shoulder. PartV.

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both the Surgeons Hands.

Another way of reducing a distocated Shoulder by the Hand is, by hanging the Person by the Luxated Arm over a Lusty Man's Shoulder, bringing his hand over to his Breast; and if the Patients weight is not enough to make Extension, he may be pulled down by another Person.

The Method of Reduction by Bandage, is by of Reduction and Girt with a Bolster in the middle, both ends been by Baning made fast together; that part of the Girt with the Bolster is to be put under the Patients Arm pit, and the other over the Surgeon's Neck, whilst another sitting upon the Patient, pulls his Arm backwards; The Surgeon in the mean time raising up the Humerus, and pressing with

pula.

Another way by Bandage is, to lay the Patient on his Back, whilft the Surgeon sitting behind, with the Girt under his Axilla, makes Extension: at the same time, another lying along the Patients side, is to press with his Heel against the Bandage, pulling the Person by the Arm all the while with all his force.

both his Hands upon the Head of the Sca-

Ey Instru-

Instruments made use of for the Reduction of dislocated Shoulders, are a I adder, a Coulstaff,

Pulleys, Gloffochomium, &c.

To make Extension by a Ladder, the Patient is to climb up three or four steps, putting the Dislocated Armover one of the Staves, betwixt his side and the Head of the Humerus, a Lusty Man pulling his Arm down, on one side the Ladder, backwards, whilst he hangs on the other.

In the Reduction by a Coulstaff, the following Method is to be observed. The Staff being made with a Bunch in the middle like a Wedge, it is to be covered with a foft Bolfter, and the Patient being placed near some post convenient to fasten a Pulley to, the Bandage must be made a little above the Elbow, and the Coulst aff placed under the Axilla, supported by a Couple of Lusty Men, the Surgeon standing on the other side with his Hands on each side of the Scapula, to press it down and keep the Patient fast in his seat, taking care likewise, whilst the Extension is making to keep the wedge in the right place, lest the Bone should be broke or any other Accident happen.

A Gloffocomium is to be used only in strong Bodies, which require strong Extension, or in

Diflocations of long Continuance.

CHAP.

Of the Luxation of the Joynt of the Flbow.



He loynt of the Elbow is made by Defeription the Concurrence of the Os Hu-of the Armeri, the Ulna and the Radius. rivaluis. The Os Humeri terminates towards the Elbow, with a Broad head and double, and internally

receives the Ulna, externally the Radius. Internal head is made smooth with a Griftle, about which the Cavity of the Ulnais moved, and Z 3 when

when the Cubit is extended, the Process called Olecranum or Ancon is inserted into the External Cavity of the Humerus, bet wixt the two Heads; and when the Arm is bent, the less Process, is also inserted into the inward Cavity of the Hu-The radius in the mean time turns upon the outward Head of the Humerus with a small Cavity, which is round and almost flat. these Heads several Muscles are inserted; all the Extensors of the Hand and Fingers rising from the External Protuberance, and the Flexors from The Joynt is not only tyed by it's Articulation by Ginglymus of the Ulna with the Os Hameri, but also by a strong Ligament, and bound fast by several Muscles. Internally by the strong and thick, though foft end of the Brachiaus Internus, a soft fleshly SubRance interpofing betwixt the Tendon and the Joynt, that the Tendon and Joynt might not incommode one another in Motion. This Tendon is affifted by the Tendon of the Biceps, as also the Tendon of the Pronator Radii teres, and Supinator Congus. The External Part is guarded by the Biceps and Brachieus externus, which uniting together have a Fleshly Inside, but a strong broad Tendon fastened to the outside of the Olecranum. Joynt is also strengthened by the Anconau, which extending it felf from the end of the Humerus obliquely transverse is inserted into the Ulna.

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The Radius is also tyed fast to the side of the Ulna, and to the Humerus, by a Circular Ligament that involves the Joynt, and a broad one that tyes it and the Ulna together. This Joynt, though so sirmly connected, may be dislocated inwardly and outwardly, and on both sides laterally.

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If the Luxation be forwards, the Arm hangs The Diagoutwards, and cannot be bent. A protuberance nosticks. appears on the Inside, and a Cavity where the Elbow should be. If the dislocation be outward, the Arm will be curved, and the Cavity will appear Internally. If the Dislocation be Lateral, there will be a Cavity on the opposite side.

This Joynt is feldom Diflocated, and when it The Proghappens, it's difficult to reduce. If either of the nofiteur.

processes be broke the Cause is desperate.

When the Cubit is diflocated forwards, the The method Arms must be extended obliquely, lest the pro-of Reduction cess of the Ulna be broke. When the Bone is toon. be reduced, one is to hold the Os humeri, another to pull the Arm. whilft the Surgeon having placed a Boulster with a Girt or Styrup upon the bend of the Arm, makes extension with his foot, and guides the Bone into it's place. If the Luxation be backwards, extension is to be made as before, the Muscles of the Cubit being first embrocated with Lenients, that the Parts may more readily give way to Extension. Whether the Part be reduced by Hand or other Instruments, after Reduction, it will be requisite, to apply Astringent Restrictives to prevent Fluxion and Inflammation, to which, Parts that require fo great Extension are subject to.

CHAP. VI.

Of the Luxation of the Carpus Metacarpus and Fingers.

Defeription of the Araculation.



He Carpus contains several Bones, of which one lyeth out of order; Three of them Articulate with the processes of the Radius and Ulna, and four to the Metacarpus, being bound together with a

acrong Ligament, which makes the Articulation more firm. Yet these Bones may be displaced, either all together or separately; Internally, Ex-

ternally, or Laterally.

The Diagnoticks.

This Luxation is evident by the Tumour formed by the displaced Bone, and also by the Motion of the Fingers, the Muscles opposite to the protuberating Bone, looking their Power of Contraction or Extension, the Antagonist Tendons being stretched out by the Dislocated Bone. If the Luxation be Lateral, the Hand inclines accordingly, either towards the Thumb or little Finger.

The minner on.

In the Reduction, the Hand is to be laid flat of Reducti. upon a Table, extension being made both above and below, the protuberant Bones being pressed down at the same time into their proper places. The Bones being reduced, the Hand is to be dressed with Restrictives, Compress and Bandage, and placed upon a Ferula.

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The Fingers may be Dislocated, backwards, forwards or laterally. When they are dislocated, it is evident to sight, they may easily be reduced by Extension, and retained so by Restrictives and Bandage.

CHAP. VII.

Of the Luxation of the Hip.



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He Joynt of the Hip, is made by Description the Head of the Os Femoris joyned of the Arto, and received by the Acetabulum is ulation. of the Os Ischion. They are joyned together by two strong Ligaments; one External and Mem-

branous, which involves the whole Head of the Femur, being extended from the further end of the Neck, where it touches the great Trochanter; to the Acetabulum, to wnose edges it is firmly connected; the other Internal is round like a cord. being inferted into the Centre of the Acetabulum, and the Apex of the Head of the Os Femoris. This Articulation is confirmed by very strong Muscles: Externally by the three Gluter; Internally by the Friceps and the Rotators; yet it is sometimes diflocated by external force; or by a great Weight, the undue Position of the Thigh concurring. It may be diflocated outward, inward, forwards and backwards. And fometimes by the Relaxation of the Ligaments and Tendons by Congestion of Humours about the Joynt and in the Acetabulum.

In

Of the Luxation of the Hip , Part. V. 346

The Diagmosticks.

If the Dislocation be Internal, the Head of the Femur may be felt a little beneath the Groin. The Leg will also appear longer than the other, the Knee and Foot being turned outward. If the Diflocation be external, the Leg will appear shorter than the other, and the Toes turned inwards. If it be Luxated by Relaxation, the Leg hangs commonly downwards directly, turns either way being loofe, and weak and emaciated.

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The Prognosticks.

Luxations of the Hip are difficult to reduce, and hard to retain in their Places. The Mem. branes being very much extended or broke. If it be not reduced it occasions violent Pain and great Fluxion, the greatness of the Bone making a great pressure and extension of the Muscles. Yet in some Months the Muscles growing Callous about the Head of the Bone, and yeilding to the Extension, the Person makes shift to go lamely; The Part being emaciated and shorter than the other. When the Diflocation is occasioned by Congestion, it is apt to Apostemate, and the Head of the Bone to grow foul and corrupt, by lying constantly so moist; and the Patient languishing, Dyes emaciated.

The manner If the Bone be distocated inward, and the Patient of Redulli-young and tender, it may be reduced by Hand; in order to which the Operator, must lay one hand

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upon the Thigh, and the other upon the Leg, extending it towards the found Leg, & then fuddenly forcing theKnee up towards the Belly, & pressing the head of the Femur back, the Bone will flip into the Acetabulum. In Bodies where stronger Extenfion is required, the Patient is to be laid upon his Back on a Table, a thick pin being fixed in the middle, which rifing up betwixt his Legs is to be placed close to that Inguen, where the protuberant Bone is lodged; then one is to pull, taking

taking hold of that Armpit, and another is to extend by the Leg obliquely towards the found Leg.

If the Luxation be backwards, the Patient must be laid upon his Belly, and the Pin placed as before, the Pin ought to be pretty thick and covered with Cotton, that it may not offend the Part with it's hardness. The Extension upwards, may be made with a Towel or Girt placed betwixt the Thighs, and by a Bandage made above the Knee; the Parts below, are to be extended by the help of a Pulley, fastened to the Bandage.

The Bone being reduced, it is to be fecured with good Restrictives and Bandage, binding that to the other Leg; and the Patient, then is to be laid in Bed. If the Bone happen to start again, a Second Reduction is not to be attempted, for fear Apostemation should be induced; especially since there may be hopes of the Part recovering strength to walk upon it, though it should

never be reduced.

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If a Luxation be made by Relaxation, the Part is to be fomented with Discutients and strengthning Medicines, and Emplaisters; as also the Superfluous Serum is to be discharged by Epispasticks, Fontanels,&c. and the Habit of the Body is also to be corrected, with proper Alteratives to strengthen the Crass of the Blood and Serum. If it Apostemate it is to be treated accordingly.

CHAP. VIII.

Of the Luxation of the Knee.

The Defeription of the Articulation.



He Articulation of the Knee is composed of the Connection of the Os Femoris, the Upper Head of the Tibia and Patella. The first is inserted by a double Protuberance into the two Ca-

vities or the Latter. The Joynt is likewise streng. thened with the broad Expansion of the Tendons before, which run over the Patella, and are inserted into the Os Tibia. Behind it is strengthened by the Tendon of the Biceps outwardly, and of the Sartonius gracilis, Semimembranosus, and Seminervosus inwardly. This Joynt is not dislocated forwards without great violence, but backwards on each side, it may be totally or half dislocated.

Luxations of the Knee are evident to the fight,
The Diag- a Protuberance appearing on the one fide and a

nosticks. Cavity on the other.

The method of Reduzi-derate Extension, especially those that are Lateral. If it be dislocated backwards, moderate Extension is to be made, then bend the Leg suddenly backwards, bringing his Heel to his Buttocks, and the Part will return into it's place. Then embrocate the Parts affected, and apply Astrin-

gents with good Compress and Bandage.

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CHAP. IX.

Of Luxation of the Ankle-Bones.



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He Extremities of the Tibia and The De-Fibula are joyned with the Os scription of Tali by Ginglymus. The Internal the Articu-Ankle is formed by the Tibia, and lation. the External by the Fibula, under the Talus, the Os Calcis lyes;

and the Os Cymbiforme before it, without which the Os Cybiforme is Joyned to the Os Calcis; between the Os Cymbiforme and the Metatar sus Lyes the Offa Cuneiformia. This Joynt is tyed together by strong Membranes and Ligaments, and strengthened by several strong Tendons, which are joyned and bound together with the Ligaments.

If the Ankle be dislocated inwards, the fole The Diag. of the foot is turned outwards, and on the Con-nofticks. trary when it is diflocated outwards. If diflocated forwards the great Tendon of the Heel is hard and stretched out, and the foot seems shorter than it should be. If backwards the Sole of the Foot feems longer, the dislocated Bone lying over the Heel: As these Signs appear more or less, the Dislocation is perfect or imperfect.

Of Luxation of the Ankle. Bone. Part. V.

350 The Prognosticks.

These dislocations are easily reduced; yet as they are depending Parts, and weakned by the extraordinary extension of the sibres, they are fubject to Tumour, Pain and Echymosis; and the Part is long before it recovers it's Tone again.

duttion.

The Reduction is made by a gentle Extension, ner of Re- one taking hold of the Foot and another of the Leg, whilst the Chyrurgeon presses the Boneinto it's place, the reverse way to what it came out. If the Extension made by hand is not sufficient, the Pulley or other instruments may be made use of. The Bone reduced, Aftringents with Bandage are to be made use of.

Sometimes the Ankle flips out laterally by a Relaxation of the Tendons, which if reduced is apt to flip out again by the least Accidental force, but by the use of Astringents, and by keeping the Part free from any Strain, for sometime, the Part will gradually recover its lost Tone and

gather strength.

The Bones of the Metatarfus and Toes are often fractured, but feldom diflocated, being bound fast by so many strong Tendons; but when they are out of place they are to be reduced as the Bones in the Metacarpus and Fingers.

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CHAP. X.

Of the Luxation of Spine.



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He Dislocations of the Spine, Which may which are occasioned by weak-be remedines, are to be cured by Intered. nal Medicines, and the Application of proper strengthning Plaisters externally, which may be

allo affifted by good Bandage.

When a Diflocation happens to be made by any External Violence, it must speedily be re-

duced; but such Cases seldom happen.

Having in the preceding Chapters shewn how The Reason Diflocations in General, and also how particular of External Diflocations are to be managed in order to the Applications for a part of and to its Natural State to one in differestoring the Part affected to its Natural State, to cations. conclude this Part, we shall briefly consider the And their Reason of those proceedings; and first, since the Effeas. Parts affected by the Diflocation must needs have their Fibres much vitiated in their Tone, by being fo violently extended fo as almost to loose their Continuity; when the Parts are by extenfion reduced into their Natural Posture, it is but reasonable they should be there retained; and since Bandage and Polition are requilite and proper, yet the Fibres being so much relaxed, might reafonably give way to the Influx of Humours, and receive them betwixt their Parts, separated in fome Measure by that violent distension. But to affift Bandage in expressing that which might be already collected, as well as to prevent the Influx of more, Astringent Repellents, are with Reason

Reason applyed, which not only prevent the Influx of Humours, but likewise contract the extended Fibres, and along with Bandage help to restore their lost Tone, and therefore they are to be continued as long as there is danger of their being extended again with Fluxion; but when that danger is over. and the Fibres have recovered their Natural stricture, strengthning Medicines are to be applyed to confirm the Parts in their Tonick stricture. How Astringent Medicines produce their Effects, hath been shewn in the First Chapter of this Book of Tumours in General, which we shall not here repeat. how strengthning Medicines produce their Effects may be easily understood, if we consider, that their subtle and warm Effiuvia Discuss whatever may be lodged in the Part, and keep its Fibres from adhering in their due strict order; and as they strengthen the Parts by removing superfluous humours, so do they likewise by recovering and preserving the Natural Heat, by which means the Fibres are confirmed in their Natural Temper and Tone.

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